

20000113.qrp v01_n699.qrl.20000113

Date: Thu, 13 Jan 2000 19:03:06 EST

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1699

QRP-L Digest 1699

Topics covered in this issue include:

- 1) [60173] Clip Art sites...
by Fred Lesnick <flesnick@tbaytel.net>
- 2) [60174] FOX: Final log 01/12/2000
by Jay Freeman <jayFreem@direcpc.com>
- 3) [60175] Re: WANTED: S/S GDO
by Ed Loranger <we6w@qsl.net>
- 4) [60176] PICs: Straight Key Memory project posted
by jacksonharbor@worldnet.att.net
- 5) [60177] Re: Speaking of Gray Line
by Thomas Isgro <k8cz@concentric.net>
- 6) [60178] Re: PROP: Playing with Beacons Again in Alaska
by wb2vuo@juno.com
- 7) [60179] RE: Final log 01/12/2000
by Mike Gipe <mgipe@reliablemeters.com>
- 8) [60180] Re: CW filters & TS 570
by RangerSF5@aol.com
- 9) [60181] Antenna Analyzers: What's your "Best DX?"
by wb2vuo@juno.com
- 10) [60182] WTB - QRP PLUS
by Normk9nk@aol.com
- 11) [60183] Re: Propagation, Beacons and Random thoughts...
by wb2vuo@juno.com
- 12) [60184] HB: 1 V challenge
by Pete Burbank <plburbank@kih.net>
- 13) [60185] RE: OT I'm back... sort of...
by "Samuel A. Falvo II" <kc5tja@armored.net>
- 14) [60186] Finally on the air
by Jason Nathaniel Artz <jartz@umich.edu>
- 15) [60187] Re: Final log 01/12/2000
by "Steve Sorrell" <ap036@detroit.freenet.org>
- 16) [60188] I'm still here
by "Scott Howell" <n3byy@yahoo.com>
- 17) [60189] Re: Grounding
by k5zty@juno.com
- 18) [60190] Re: Speaking of Gray Line
by Monte Stark <ku7y@dri.edu>
- 19) [60191] Re: Transformer Question

- by "Cla KA0GKC" <ka0gkc@arrl.net>
- 20) [60192] Re: CW filters & TS 570
by Monte Stark <ku7y@dri.edu>
- 21) [60193] Full Moon
by Monte Stark <ku7y@dri.edu>
- 22) [60194] Small Paddles
by John F Rayfield <kr0y@juno.com>
- 23) [60195] OT: GrayLine/Poqet PC
by "Vincent Ferme" <vferme@sprint.ca>
- 24) [60196] Re: Loudspeaker Field Coil Info.
by "Robert W. Shaw" <lycott@fox.nstn.ca>
- 25) [60197] CQ CQ Amsterdam/QRP
by "Cla KA0GKC" <ka0gkc@arrl.net>
- 26) [60198] Re: Full Moon
by "Paul Harden, NA5N" <na5n@rt66.com>
- 27) [60199] Re: MFJ-259B radiates a pretty good signal!
by Jerry Flanders <jflanders2@home.com>
- 28) [60200] PROP: Sudden solar activity
by "Paul Harden, NA5N" <na5n@rt66.com>
- 29) [60201] 160 Meter antennas, a few thoughts...
by "Jade Products, Inc." <jadepro@jadeprod.com>
- 30) [60202] Bob Hightower
by RangerSF5@aol.com
- 31) [60203] The halogen lamp strikes again
by KD6AXT@cs.com
- 32) [60204] Re: Small Paddles
by Bob Patten <n4bp@bc.seflin.org>
- 33) [60205] Antenna Measurements...Best Method/Device?
by aweiss@usd.edu (Ade Weiss W0RSP)
- 34) [60206] SW-40+ Elmer Sites
by "Kory Hamzeh" <kory@avatar.com>
- 35) [60207] 160 Times and Activity
by aweiss@usd.edu (Ade Weiss W0RSP)
- 36) [60208] Self Aware:Radio Lives
by Ed Loranger <we6w@netzero.net>
- 37) [60209] Re: Antenna Measurements...Best Method/Device?
by Monte Stark <ku7y@dri.edu>
- 38) [60210] Re: 160 Times and Activity
by Monte Stark <ku7y@dri.edu>
- 39) [60211] Re: FOX Freqs
by "Bill Todd" <zapzap73@hotmail.com>
- 40) [60212] Re: FOX ALERT for 1/14/99 (N7MFB)
by "Bill Todd" <zapzap73@hotmail.com>
- 41) [60213] FS: Brass Racer EK-1 and Misc Heath gear
by "J. Ervin Bates" <w8erv@email.msn.com>
- 42) [60214] FDIM Dates, pse
by "J. Ervin Bates" <w8erv@email.msn.com>
- 43) [60215] Qrp Beacon on 21mhz!

- by Kleibe Jacinto de Araujo <kleibe@anatel.gov.br>
- 44) [60216] Another vote for "Earth and Sun"
by Peter_Simpson@ne.3com.com
- 45) [60217] RE: FDIM Dates, pse
by Sam_Stimson@Dell.com
- 46) [60218] 160m mobile
by tom whalen <wb5qyt@eFortress.com>
- 47) [60219] Re: 160 Times and Activity and WB8QYY
by "Chuck Carpenter" <w5usj@globeco.net>
- 48) [60220] Re: 160 Times and Activity
by Thomas Kuehl <ac7a@gci-net.com>
- 49) [60221] Re: Antenna adjustments (was FRS)
by Philip Karras <ke3fl@yahoo.com>
- 50) [60222] Another Butternut Question
by "Dan W. Dooley" <dandooley@pipeline.com>
- 51) [60223] Super Antennas
by Sam_Stimson@Dell.com
- 52) [60224] RE: OT: Comm Quart and ARRL. (And CQ, CQ VHF)
by Philip Karras <ke3fl@yahoo.com>
- 53) [60225] RE: Super Antennas
by Sam_Stimson@Dell.com
- 54) [60226] OPERATING: 160 M QRPpppp
by "Dieter Gentzow - WB8QYY" <wb8qyy@one.net>
- 55) [60227] Wilderness SST vs SW+40
by "Michael Bower - N4NMR" <bowerm@ix.netcom.com>
- 56) [60228] Re: 160 Times and Activity
by Dick Carroll <dixie@townsqsr.com>
- 57) [60229] The halogen lamp strikes again
by Drbob92031@aol.com
- 58) [60230] Fw: Is #28 too thin for 'invisible' antennas?
by "Mike Pupeza" <mpupeza@softecsys.net>
- 59) [60231] RE: Is #28 too thin for 'invisible' antennas?
by Karl Kanalz <KKanalz@excel.com>
- 60) [60232] CONTEST: QRP Calendar This Weekend
by Ken Newman <N2CQ@citnet.com>
- 61) [60233] RF power measurement discrepancies?
by Tayloe Dan-P26412 <Dan.Tayloe@motorola.com>
- 62) [60234] RE: Is #28 too thin for 'invisible' antennas?
by Jeff <fantbb@yahoo.com>
- 63) [60235] FOX: Fox Buro.....it's working!
by Clifton W Sikes <ab5uacw@juno.com>
- 64) [60236] Re: Is #28 too thin for 'invisible' antennas?
by "Dan W. Dooley" <dandooley@pipeline.com>
- 65) [60237] Re: The halogen lamp strikes again
by Curt Milton <wb8yyy@yahoo.com>
- 66) [60238] Re: The halogen lamp strikes again
by Bruce Toback <btoback@optc.com>
- 67) [60239] Fw: Re: Antenna Measurements...Best Method/Device?

- by Bill H Ross <k6mgo@juno.com>
- 68) [60240] Re: Fw: Is #28 too thin for 'invisible' antennas?
by "Ed Manuel (N5EM)" <n5em@flash.net>
- 69) [60241] Need help on
by Johnny <km5im@telepath.com>
- 70) [60242] Re: RF power measurement discrepancies?
by "George T. Baker" <w5yr@worldnet.att.net>
- 71) [60243] Sierra Radio MN-9 in Nuts and Volts
by "Richard E. Robinson" <rerobins@email.uncc.edu>
- 72) [60244] 160m Milliwatting at W8RU
by Ron Majewski <majewski@erim-int.com>
- 73) [60245] Last call for QRP Hall of Fame 2000
by "Mike Czuhajewski" <wa8mcq@erols.com>
- 74) [60246] Additional notes on QRP Hall of Fame
by "Mike Czuhajewski" <wa8mcq@erols.com>
- 75) [60247] Re: Fw: Is #28 too thin for 'invisible' antennas?
by Dick Carroll <dixie@townsqsr.com>
- 76) [60248] New QRP miles per watt record for 160M !
by Jim Hale <kj5tf@yahoo.com>
- 77) [60249] Re: Is #28 too thin for 'invisible' antennas?
by Dick Carroll <dixie@townsqsr.com>
- 78) [60250] Re: Fw: Is #28 too thin for 'invisible' antennas?
by James Skalski <jskalski@localnet.com>
- 79) [60251] Wanted - OHR WM-2 or LDG digital wattmeter
by M Goins <mgoins@usa.net>
- 80) [60252] Re: RF power measurement discrepancies?
by Bruce Toback <btoback@optc.com>
- 81) [60253] Re: Need help on
by Dave Sjolín <sjolin@swbell.net>
- 82) [60254] RE: Need help on
by Sam Stimson@Dell.com
- 83) [60255] RE: RF power measurement discrepancies?
by Mike Gipe <mgipe@reliablemeters.com>
- 84) [60256] Re: 160m mobile
by Chris Cartwright Sr <ccart@phideaux.com>
- 85) [60257] OPERATING: 160 again tonight
by "Dieter Gentzow - WB8QYY" <wb8qyy@one.net>
- 86) [60258] Re: Fw: Is #28 too thin for 'invisible' antennas?
by Brian <brian@iquest.net>
- 87) [60259] Grayline
by HammanAl@aol.com
- 88) [60260] Contacting Chuck Adams
by Jim Durkin <jimdurkin@yahoo.com>
- 89) [60261] QRP Quarterly
by "Francis Callahan" <colcal@srv.net>
-

Date: Wed, 12 Jan 2000 19:04:44 -0500
From: Fred Lesnick <flesnick@tbaytel.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>, QRP Canada <qrp-canada@lists.gpfn.sk.ca>
Subject: [60173] Clip Art sites...
Message-ID: <387D169B.A8D67372@tbaytel.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello All:

Just making up some new QSL cards on the computer. Does anyone know of any sites with some good clipart. I am really looking for some of the report blocks to try out on various cards.

73 Fred
VE3FAL

Date: Wed, 12 Jan 2000 18:14:52 -0600
From: Jay Freeman <jayFreem@direcpc.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [60174] FOX: Final log 01/12/2000
Message-ID: <387D18FC.9F198087@direcpc.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

The typos have been corrected. Thanks to all who helped.

For those disappointed with the "fiasco", or the "lost cause", sorry, I did my best. The rules quite clearly say no split, so that's the way I chose to operate. I did use RIT out to a max of about 300 Hz. Perhaps some expert should write a book for people who've never done this before, or ask Momma to establish some minimum qualifications for Foxii. Perhaps some people just take this too seriously :).

Fox Log 0100=0300 12 Jan 2000 - WT9S

Time Call Fox RST Hound RST QTH Name QRP-L # Pwr

0102 N4ROA 599 599 VA DAN 970
0104 N9AW 599 599 WI JERRY 1271
0106 N0EA 599 559 MO WAYNE 1058
0107 K0EVZ 579 569 ND DOC 861
0111 W0CH 579 579 MO DAVE 618
0114 N0DT 579 559 MO DAN 1004

0116 KU4AF 559 559 NC JOHN 987
 0118 WS4S 599 579 TN CONARD 993
 0120 W8SFF 579 559 MI STEVE 1288
 0128 WB8KQY 579 579 OH GARY 446
 0135 KB9IUA 589 599 IL KEVIN 384
 0137 W0RSP 579 579 SD ADE 661
 0140 N8VAR 579 559 OH RON 263
 0144 K5AAR 559 559 OK DON 1512
 0146 AB8DF 579 559 MI ED 1444
 0148 N8XI 579 569 MI RICK 1368
 0152 KU7Y 559 559 NV RON 17
 0154 N0UR 579 579 MN JIM 799
 0155 NV4V 579 579 KY PETE 1721
 0158 N0EHW 579 579 MO TIM 2047
 0201 AF4PS 559 569 FL MAC 704
 0207 N1LN 549 559 TX BRUCE 2049
 0209 K8CV 579 559 MI WALT 935
 0213 N1TP 559 559 FL TOM 1317
 0215 W0JOE 579 569 MO JOE 1901
 0218 KI0II 579 569 CO RON 928
 0220 AE9K 599 599 WI BRIAN 58
 0233 AE2T 559 559 NY AL 1664
 0234 NK9G 579 559 WI RICK 2061
 0237 AJ4Y 579 569 FL PAUL 1795
 0240 W2PFS 559 559 NY HAL 2078
 0244 K1MG 449 449 CA MIKE 614
 0248 N5JI 559 559 TX RICH 1054
 0252 W5TW 559 559 TX TOM 1474
 0256 WV3JVA 599 559 VA PAUL 1214
 0259 N5LU 559 559 OK BILL 2009

73,

Jay

--

 * Jay Freeman - WT9S ARRL *
 * G-QRP 10319 QRP-ARCI 9981 ARS 562 *
 * SASS #18700 NRA Life *

Date: Wed, 12 Jan 2000 16:25:27 -0800

From: Ed Loranger <we6w@qsl.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [60175] Re: WANTED: S/S GDO
Message-ID: <387D1B77.E18FB351@qsl.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gang, I've already got an Eico GDO. I'm looking for better frequency resolution tuning and even a built in frequency display if possible.

Anyone who has one of the 15 or so Freq. References I traded out, know what a high-end piece of equipment I'm offering in trade.

If you are serious about having an ultra stable 10 MHz master freq. reference, here's your chance.

A mfj259B with all the GDO options added might be a consideration as well but I'm mostly interested in a dedicated GDO having high performance.

Thanks!

72/Ed we6w

Ed Loranger wrote:

>
> That's Solid-State Grid Dip oscillator. Battery operation
> preferred.
>
> Trade straight across for my Lab quality 10 MHz
> sinewave ovenized S/C cut freq. standard.
>
> Value approx: \$800.00 to \$1000.00
>
> Brand new. 7.5 dBm output. Very clean.
>
> Best 72/Ed we6w
>
> --
> -72/Ed WE6W; AR Millennium Q's=> 2479/2000 A-1 OP
> <http://www.qsl.net/we6w> Santa Rosa, CA
> QRP-Z#106 AR#112 HI-QRP#64 ARCI#9397 ARS#275 QRP-L#1068 Old NC#2227

--
-72/Ed WE6W; AR Millennium Q's=> 2479/2000 A-1 OP

http://www.qsl.net/we6w Santa Rosa, CA
QRP-Z#106 AR#112 HI-QRP#64 ARCI#9397 ARS#275 QRP-L#1068 Old NC#2227

Date: Thu, 13 Jan 2000 00:27:54 +0000
From: jacksonharbor@worldnet.att.net
To: qrp-1@lehigh.edu
Subject: [60176] PICs: Straight Key Memory project posted
Message-ID: <20000113002754.VEJS28505@webmail.worldnet.att.net>

Hello all -

I've posted a zip file (skmf84.zip) of the source,
schematic and a readme file for a PIC 16F84 based SKM
(Straight Key Memory) on my web site projects page:

<<http://jacksonharbor.home.att.net/projects.htm>>

The SKM uses the PIC along with a variable RC clock and
and optional external eeprom to record and play Morse
code messages using your key, keyer or bug as an input
device. The SKM is connected between the keying device
and the transmitter.

Please email any comments or questions to:

jacksonharbor@att.net

Best Regards,

Chuck Olson, WB9KZY
Jackson Harbor Press

Date: Wed, 12 Jan 2000 19:22:40 -0500
From: Thomas Isgro <k8cz@concentric.net>
To: dandoooley@pipeline.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [60177] Re: Speaking of Gray Line
Message-ID: <387D1AD0.3768@concentric.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I just got a copy of a program at the local Office Depot called WSortd
Atlas. Besides all sorts of maps and the like it also displays the

areas of daylight and night with the gray-line between. It is synchronized with your local time. Price was \$9.95, but they were running a buy one get two free special at the time.

Tom, K8CZ

Date: Wed, 12 Jan 2000 19:47:54 -0500
From: wb2vuo@juno.com
To: al7fs@hotmail.com, qrp-1@lehigh.edu
Subject: [60178] Re: PROP: Playing with Beacons Again in Alaska
Message-ID: <20000112.194801.-500619.0.wb2vuo@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Hi Jim, and the List. Keith here portable in Binghamton, but without gear except for the laptop...

I am the trustee for the NQ2RP/B beacon and the B/BAMS club "station", as it is...

I wish that the beacon was still running 125 mW, but that TX bit the big 'un last spring, and we got a Radio Shack HTX-100 donated to the cause. The HTX-100 has been throttled back to its lowest power, and is running 2 watts. This is +33 dBm instead of the +21 dBm we ran at 125 mW.

Why, may you ask am I specifying power in Decibels above a milliwatt? Well, it is easier for comparisons as the Watts -> dB conversion is already there. The "new TX is running +12 dB compared to the "old" TX, or about 2 "S-Units".

Based on that, if we were still running the 125 mW, Jim's report on NQ2RP/B would have been a 209 or maybe a 009 (too weak to hear, no signal strength and a good note...)

I have sent the updated info to several lists that have 10 Meter and HF beacons posted, but the corrections have not made it out there as of yet.

Sorry to raise everyone's expectations, but copying 2 watts from WNY to AK still is NOT bad at all!

Reports on the beacon can be sent to: bbams@juno.com which is the club's Email account.

72/73, Keith, WB2VU0, 100% QRP from the Depths of the Great Bergen Swamp
VP & FD'00 Chairman, Brockport Amateur Radio Klub
My night light runs more power than my Rig!!!

YOU'RE PAYING TOO MUCH FOR THE INTERNET!

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<http://dl.www.juno.com/get/tagh>.

Date: Wed, 12 Jan 2000 17:01:34 -0800

From: Mike Gipe <mgipe@reliablemeters.com>

To: jayFreem@direcpc.com, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [60179] RE: Final log 01/12/2000

Message-ID: <F988E2FF74F4D111A61F00A0C949D7A928E84C@mission>

MIME-Version: 1.0

Content-Type: text/plain;
charset="windows-1252"

Jay --

No need for you to accept complaints or non-constructive criticism from anybody. You announced what you were going to do; you stuck to what you said; and you did a good job doing it. We can ask no more.

I'm glad you did. Your fox hunt has greater value to the group than many others, because it was very educational -- for you, for other foxes, and especially for the hounds. And, after all, education is one of the primary purposes of the foxhunts, second only to having fun.

I would be interested in hearing about your impressions of the hunt. What was it like from your end? What should the hunters have done to make your life easier? What could you have done differently which would have made it easier for yourself? Did you enjoy it? What should we learn from it, as a group?

By the way, your tally of pelts handed out is higher than that of many previous foxhunts, and under worse QRM conditions. In addition, as I reviewed your log, I couldn't find any errors; so I am impressed with the accuracy of your effort.

Being the fox is not an easy job these days. I wish everyone could try a turn in the barrel and see what it's like! Thanks for the stalwart job.

Mike K1MG

> -----Original Message-----

> From: Jay Freeman [mailto:jayFreem@direcpc.com]

> For those disappointed with the "fiasco", or the "lost
> cause", sorry, I
> did my best....
>

Date: Wed, 12 Jan 2000 20:07:27 EST
From: RangerSF5@aol.com
To: paul@g0wat.demon.co.uk, qrp-1@lehigh.edu
Subject: [60180] Re: CW filters & TS 570
Message-ID: <67.9f5ead.25ae7f4f@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

In a message dated 1/12/100 5:25:04 PM EST, paul@g0wat.demon.co.uk writes:

<<

Has anyone any experience of whether the INRAD is better than the
Kenwood filter, as in the UK the reverse is probably true in that the
INRAD filter is more expensive than the Kenwood...also is'nt the INRAD
a 400hz filter?

>>

Hi Gang,

I may be wrong but I thing INRAD used to be the Fox Tango club
I did most of the mods with the mod kits they had and the Kenwood filters
were the first thing that was removed,For CW work,the narrow
filter can't be beat.
For serious CW work use the right tool to get the job done.
So you get a bit of ringing at 150HZ but you can still copy the other station.
Thats better then saying QRT due to QRM.
Just my 2 cents worth
Bob WA2HOQrp <tm>

Date: Wed, 12 Jan 2000 20:09:01 -0500
From: wb2vuo@juno.com
To: qrp-1@lehigh.edu
Subject: [60181] Antenna Analyzers: What's your "Best DX?"
Message-ID: <20000112.200907.-500619.3.wb2vuo@juno.com>
MIME-Version: 1.0

Content-Type: text/plain
Content-Transfer-Encoding: 7bit

I run the Autek RF-1 for my antenna measuring chores, and have been heard on 80 and 160 out to 15+ miles.

The QST review measured the power out at 2 mW.

So, who's put a key on one of these beasts and earned his/her KiloMile/Watt award with a _____?

Do I smell a challenge, or a contest?

72/73, Keith, WB2VU0, 100% QRP from the Depths of the Great Bergen Swamp
VP & FD'00 Chairman, Brockport Amateur Radio Klub
My night light runs more power than my Rig!!!

YOU'RE PAYING TOO MUCH FOR THE INTERNET!
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Try it today - there's no risk! For your FREE software, visit:
<http://dl.www.juno.com/get/tagj>.

Date: Wed, 12 Jan 2000 20:19:29 EST
From: Normk9nk@aol.com
To: qrp-l@lehigh.edu
Subject: [60182] WTB - QRP PLUS
Message-ID: <23.39d1b3.25ae8221@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Wanted - QRP Plus or a 20 mtr mono-band xcvr that covers CW and Phone

Please send info to:

normk9nk@aol.com

72's - de - Norm - K9NK

Date: Wed, 12 Jan 2000 20:18:49 -0500
From: wb2vuo@juno.com
To: qrp-l@lehigh.edu
Subject: [60183] Re: Porpagation, Beacons and Random thoughts...

Message-ID: <20000112.201854.-500619.4.wb2vuo@juno.com>

MIME-Version: 1.0

Content-Type: text/plain

Content-Transfer-Encoding: 7bit

Hmmm, I just re-read the post on the NQ2RP beacon, and an odd thought popped into my head (nothing unusual there...)

If I cut the power back to 125 mW, and the signal dropped in AK from a 229 to a 009 RST, and I degraded the filters in the PS somewhat and got a T7 report instead of a T9, would my report arrive on a QSL card, or on Bond paper?

(Sorry, blame this on my McHockey Puck w/Cheese dinner I guess!)

72/73, Keith, WB2VUO, 100% QRP from the Depths of the Great Bergen Swamp
VP & FD'00 Chairman, Brockport Amateur Radio Klub
My night light runs more power than my Rig!!!

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Try it today - there's no risk! For your FREE software, visit:

<http://dl.www.juno.com/get/tagj>.

Date: Wed, 12 Jan 2000 20:25:52 -0500

From: Pete Burbank <plburbank@kih.net>

To: <qrp-1@Lehigh.EDU>

Subject: [60184] HB: 1 V challenge

Message-ID: <3.0.32.20000112202549.00724308@kih.net>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

A recent post by an experimenter named Jack mentioned tunnel diodes for QRP use. I don't have the book by Rufus Turner that he refers to.

The first thing that popped into my head on reading the first post regarding the challenge was "Tunnel Diode".

I was looking at a circuit today of a transmitter that only had 6 parts. "The Transistor Radio Handbook " by Stoner and Earnshaw. My question is where a good source of tunnel diodes and more circuit ideas?

73 Pete NV4V

Date: Wed, 12 Jan 2000 17:22:27 -0800 (PST)
From: "Samuel A. Falvo II" <kc5tja@armored.net>
To: Sam_Stimson@Dell.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [60185] RE: OT I'm back... sort of...
Message-ID: <Pine.LNX.3.96.1000112171312.19470A-100000@garnet.armored.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 11 Jan 2000 Sam_Stimson@Dell.com wrote:

> Dell Computer will preload Linux on any of its systems if requested by the
> customer.. Not only do they vow compatibility, they insure it by loading and
> testing the OS with the system and peripherals prior to shipment.

Linux is a kick-butt operating system, but don't think you're going to
have less problems with Linux than with Windows. You're just going to
have /different/ problems with Linux than you will with Windows.

The reason is simple: both projects are so *HUGE* that no single person
(or authority, in the case of a group of people) can possibly encompass
all QA requirements. There's bound to be software incompatibilities
somewhere.

> > and WIN 2000 Server = the obvious upgrade from WIN NT 4-server.) Problem
> is:
> >
> > (including the brand new Adaptec I bought for the Ricoh CD-R/W I want to
> be
> > able to use with it.) So far I've had to completely reinstall the OS about
> 5
> > or 6 times. ONE more time, and I'm going back to WIN NT 4.0.

I have Windows 2000 Server Beta 3 running on my system at home. I
installed it once. It has yet to crash.

--

KC5TJA/6, DM13, QRP-L #1447
Samuel A. Falvo II
Oceanside, CA

Date: Wed, 12 Jan 2000 20:39:46 -0500 (EST)
From: Jason Nathaniel Artz <jartz@umich.edu>
To: QRP-L List <qrp-l@Lehigh.EDU>
Subject: [60186] Finally on the air

Message-ID: <Pine.SOL.4.10.10001122030350.6241-100000@breakout.gpcc.itd.umich.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I just finished building my emtech zm-2 antenna tuner (seems to match just about anything) and am attempting to make my first QRP contact. Actually, my first HF contact since leaving California a few years ago. I built a SST-20 about a year ago and never operated it into anything but a resistor because I had no matched antenna. I live in a ground floor apartment where wires are not appreciated. As of now, I have about 20 feet of fine #20 wire strung out my window and around my patio fence. I am using my apartment's electrical ground as a ground for this random-wire antenna. I realize that this is far from ideal - perhaps even far from functional - but it's the best I can do (to my knowledge) at this time. Is there anyone in Southeast Michigan or nearby who would be interested in scheduling an on air 20 meter contact? Does anyone have any suggestions that might help?

Thanks,
Jason Artz
AC6XA/8/QRP

Jason N. Artz

The University of Michigan

Date: Thu, 13 Jan 2000 01:45:02 -0000
From: "Steve Sorrell" <ap036@detroit.freenet.org>
To: <mgipe@reliablemeters.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [60187] Re: Final log 01/12/2000
Message-ID: <00fc01bf5d67\$cfddd6a0\$d842b3c7@sorrells>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Mike, you hit the nail on the head, a great fox hunt. Nuff said now on to the next fox hunt.
de Steve, W8SFF

Date: Wed, 12 Jan 2000 20:39:53 -0500

From: "Scott Howell" <n3byy@yahoo.com>
To: <qrp-1@lehigh.edu>
Subject: [60188] I'm still here
Message-ID: <00eb01bf5d68\$baa7bc00\$8c61b683@HQ.NASA.GOV>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Well folks I see old Ed is kinda back. I really never went away, but have been absolutely snowed with work at work and at home. I've been on the air some and actually trying to make sense of the advanced and maybe extra material. In any case if anyone cared to know, I'm still around. Looks as though the masses are still with us and doing well. I haven't read much mail here lately, but try as time permits. c yall on the air...well perhaps.<G>

73 de Scott/n3byy
Laurel MD
Fists #5030 . CQC #637 . Qrp- #1689 . Zombie #333
for immediate response, send mail to n3byy@amsat.org
home page <http://www.qsl.net/n3byy>

Do You Yahoo!?
Talk to your friends online with Yahoo! Messenger.
<http://im.yahoo.com>

Date: Wed, 12 Jan 2000 19:12:57 -0600
From: k5zty@juno.com
To: rengelwb8uoj@juno.com
Cc: qrp-1@Lehigh.EDU
Subject: [60189] Re: Grounding
Message-ID: <20000112.200933.-80535.1.k5zty@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

My question that I have asked before and ask again is how do you measure the 25 ohms.
>From what to what???? And what do you measure it with???? If there is a code, there

must be an inspector. What does he bring to the job site to measure this with??? How does he hook it up and what does he hook it up to????

Bill, K5ZTY
Houston, TX

Date: Wed, 12 Jan 2000 18:11:57 -0800 (PST)
From: Monte Stark <ku7y@dri.edu>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [60190] Re: Speaking of Gray Line
Message-ID: <Pine.GS0.4.10.10001121811050.26988-100000@rotor.dri.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

World Watch is another good Gray Line program.

<http://www.exptech.com/html/WorldWatch/worldwatch.htm>

Not free. About \$43 but it's worth taking a look at.

73, Ron

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@dri.edu....Washoe Lake, Nevada....NRA LIFE....
.....SOWP 5545M.....WHINERS #1.....ZOMBIE #18.....

Date: Wed, 12 Jan 2000 20:43:03 -0600
From: "Cla KA0GKC" <ka0gkc@arrl.net>
To: <Wb4jjj@aol.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [60191] Re: Transformer Question
Message-ID: <022b01bf5d70\$1baff560\$a10a5e2c@groucho>

For testing transformers get a know low voltage transformer of say 12 volts out or so. Connect a small lamp such as an auto backup light in series with the transformer output. Now you have a low voltage current limited source to connect to unknown transformers and measure there output voltage and determine the low and high voltage windings.

Transformer voltage is measured at the specified output current level. Any transformer will have an appreciable higher open circuit voltage.

Electrolytic capacitors should be spec'd at least twice the maximum input voltage. AC voltages are measured at there equivalent DC voltage, i.e. the DC

voltage required to do the same work. Because 60Hz AC is a sine wave the "peaks" have to compensate for the "lulls" therefore the peak voltage is higher than the AC spec'd voltage. If you have an O-scope look at a waveform from a low voltage transformer and measure the voltage from upper peak to lower peak. Also measure the voltage with an AC volt meter, notice the difference? The O-scope measurement is the peak to peak voltage, the AC volt meter is the RMS voltage or DC equivalent.

The ARRL Handbook section on AC and power supplies would be an excellent resource for you and your power supply experiments.

Hope this Helps,

73 de Cla KA0GKC

Date: Wed, 12 Jan 2000 18:44:35 -0800 (PST)
From: Monte Stark <ku7y@dri.edu>
To: Paul Brice-Stevens <paul@g0wat.demon.co.uk>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [60192] Re: CW filters & TS 570
Message-ID: <Pine.GS0.4.10.10001121842530.26988-1000000@rotor.dri.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Paul,

Inrad is the old Fox Tango. New owner and great folks to deal with.

Check out their site to see what they have for your radio and then look at the charts to see how they compare with KW filters. (I think Inrad are much better than any of the "Big 3" filters.)

<http://www.qth.com/inrad/index.htm>

Hope this helps,

73, Ron

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@dri.edu....Washoe Lake, Nevada....NRA LIFE....
.....SOWP 5545M.....WHINERS #1.....ZOMBIE #18.....

Date: Wed, 12 Jan 2000 18:52:48 -0800 (PST)
From: Monte Stark <ku7y@dri.edu>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [60193] Full Moon
Message-ID: <Pine.GS0.4.10.10001121844510.26988-1000000@rotor.dri.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Wow,

There must be a full moon getting close.....

Otherwise nice folks are starting to use bad words. Some are condemning others for giving an opinion.

I don't care if people give their opinion on a subject, even CW (pro or con) but I do get upset when a handfull can't do it without getting personal.

There are some who owe the list an apology. Not for your opinion but for the way you chose to express it.

73, Ron

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@dri.edu....Washoe Lake, Nevada....NRA LIFE....
.....SOWP 5545M.....WHINERS #1.....ZOMBIE #18.....

Date: Wed, 12 Jan 2000 20:57:36 -0600
From: John F Rayfield <kr0y@juno.com>
To: qrp-l@Lehigh.EDU
Subject: [60194] Small Paddles
Message-ID: <20000112.205738.15990.0.kr0y@juno.com>

Any suggestions on a set of small (or even, VERY small <G>) paddles for use with my new DSW-40 rig?

John

YOU'RE PAYING TOO MUCH FOR THE INTERNET!
Juno now offers FREE Internet Access!

Try it today - there's no risk! For your FREE software, visit:
<http://dl.www.juno.com/get/tagj>.

Date: Wed, 12 Jan 2000 22:03:47 -0500
From: "Vincent Ferme" <vferme@sprint.ca>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [60195] OT: GrayLine/Poqet PC
Message-ID: <007a01bf5d72\$d02f9f20\$96716395@vince>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="us-ascii"
Content-Transfer-Encoding: 7bit

I did not see Terminat mentioned, it's an oldie (1987) but would be ideal for the Poqet PC. It takes 250k of space. I don't know whether is shareware or freeware, the zip file I have does not include any licensing info.

73 de Vince, VE3VFN.

Date: Wed, 12 Jan 2000 11:43:39 -0500
From: "Robert W. Shaw" <lycott@fox.nstn.ca>
To: <qrp-1@lehigh.edu>
Subject: [60196] Re: Loudspeaker Field Coil Info.
Message-ID: <3.0.5.32.20000112114339.00853100@fox.nstn.ca>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

If you do try to use these old speakers, remember that there was a designed current required through the field, so using it as a B+ filter choke, you have to have a reasonable current in the B+ supply. Exactly how much probably depends on the set for which the speaker was designed.

Best use for these, probably, is to old time radio restorers, or as a very large source of fine wire (about #30). As a kid, these were my supply of wire for every project including antennas which were very stealth.

72 de Bob VE3SUY

Date: Wed, 12 Jan 2000 21:15:19 -0600
From: "Cla KA0GKC" <ka0gkc@arrl.net>

To: "QRP-1" <qrp-1@lehigh.edu>
Subject: [60197] CQ CQ Amsterdam/QRP
Message-ID: <030f01bf5d75\$eaf2ca00\$a10a5e2c@groucho>

Looking for any Ham's in the Amsterdam area, please contact me via private email.

Thanks and 73 Cla KA0GKC

Date: Wed, 12 Jan 2000 21:27:53 -0700 (MST)
From: "Paul Harden, NA5N" <na5n@rt66.com>
To: Monte Stark <ku7y@dri.edu>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [60198] Re: Full Moon
Message-ID: <Pine.SUN.4.10.10001122123430.7705-1000000@shell.rt66.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 12 Jan 2000, Monte Stark wrote:
> There must be a full moon getting close.....

Speaking of the moon ... look at the moon thursday or friday night.
Thursday night, the moon will be right next to a bright star ... which is actually the planet Saturn. The next evening, it will be right next to another bright star -- Jupiter. Both bright planets are fairly close to each other right now, and the moon will serve as a guide the next two nights by skimming them both.

Hint: You can see the rings of Saturn and 3-4 of Jupiter's moons with a modest pair of binoculars in a fairly dark sky.

ObQRP: Uuuh, I don't know :-)) Must have some connection.

72, Paul NA5N

Date: Wed, 12 Jan 2000 23:30:09 -0500
From: Jerry Flanders <jflanders2@home.com>
To: w7ls@blarg.net
Cc: qrp-1@Lehigh.EDU

Subject: [60199] Re: MFJ-259B radiates a pretty good signal!
Message-ID: <3.0.1.32.20000112233009.0124c750@mail>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

P 3 of the manual says: 3 Vpp (approximately 20 milliwatts) into 50 ohms.

Jerry W4UK

At 02:35 PM 1/12/00 -0800, you wrote:

>Alan KB7MBI was listening for me to test a rig I am working on. I
>adjusted my antenna tuner with a MFJ-259B, like you're supposed to. I
>was on the phone with him at the time. I heard a signal in the phone,
>coming from his receiver. I was listening to my own MFJ-259B. We are
>about 6 miles apart. My antenna is as close to worthless trash as is
>possible, too. We were on 20 meters.
> Anyone out there measure the output power from a 259B? I have the
>stuff to do it, but just haven't hooked it up. Thanks. Jim W7LS
>
>

Date: Wed, 12 Jan 2000 21:50:59 -0700 (MST)
From: "Paul Harden, NA5N" <na5n@rt66.com>
To: qrp-l@lehigh.edu
Subject: [60200] PROP: Sudden solar activity
Message-ID: <Pine.SUN.4.10.10001122128431.7705-100000@shell.rt66.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Gang,

The sun has been rather boring lately with little activity. We are also climbing out of the 28-day solar flux mininum, where it dropped to the 130's, and starting to climb. Today alone, it suddenly jumped up to 196 ... meaning solar flux will be in the 200's for the next several days. There is a peasty coronal hole that has caused active conditions to our magnetic field (no biggie) for generally good and quiet conditions on all bands.

But ... a region on the sun suddenly developed into a delta group (see below) which is the precursor indicator of possible major flare activity over the next few days. In other words, the possibility of a large M class flare, or even an X-class flare, is upon us, and worth watching over the next few days. But for now ... high solar flux (the higher

bands or open and hot) and quiet conditions on the lower bands.

Here's excerpts from today's Solar & Geomagnetic Report with some explanations:

> JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
> SDF NUMBER 012 ISSUED AT 2200Z ON 12 JAN 2000

> IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 11/2100Z
> TO 12/2100Z: SOLAR ACTIVITY WAS MODERATE. OVERALL ACTIVITY INCREASED
> DRAMATICALLY IN THE LAST 24 HOURS. REGION 8824 (S13E47) DEVELOPED
> INTO A BETA-GAMMA-DELTA MAGNETIC CLASSIFICATION AND PRODUCED AN
> M1/1F EVENT AT 12/0017UT.

The BETA classification means strong magnetic fields are leaving one sun spot and re-entering the sun through another, and they are bipolar fields (containing both a N and S pole). DELTA means the distance between the sun spots that have these magnetic field lines are very close together (by solar standards), becoming very dense, and almost always precedes major solar activity. If you could see these magnetic field lines, they would be dozens of "horse shoe" patterns leaving the sun and reentering. If a flare occurs, the hot solar material travels along these magnetic field lines, which makes the photos you have seen of these giant arcs going out into space and curling back towards the sun. The material is simply following it's own magnetic field lines.

> REGION 8824 ALSO PRODUCED MULTIPLE C-CLASS
> EVENTS AND SHOWED STRONG PLAGE BRIGHTENING THROUGHOUT THE PERIOD.

The plage is the hairlike lines that stick outward around a sunspot group, and brightening often indicates that the magnetic field intensity is still growing, increasing the chances further still of major flare activity.

> NEW NUMBERED REGION 8829 (N16E78) PRODUCED AN M2/SF IN CONJUNCTION
> WITH A TYPE II RADIO SWEEP AT 12/0138UT.

This M2 flare sent a shockwave outward from the sun, which passes through the sun's magnetic field lines. As the sun's magnetic field lines are crossed by the shock wave, it produces a burst of RF energy in the 200-300MHz region, and sweeps downward in frequency about 20MHz per second. A strong flare can sweep down to 10MHz or so, though 20-30MHz is more typical. It sweeps through these frequencies fast, sounding more like a static pop at regular intervals, and often mistaken for man made interference. They last not much longer than the flare event itself. But it does indicate a shock wave from the sun has traveled outward and possibly enough to escape the sun's gravitational field and could hit the earth 3 days later. This would trigger a geomagnetic storm late

friday or saturday, IF it is headed for us. Those details should be better known tomorrow and when satellite images are ready.

> IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO CONTINUE
> TO BE MODERATE WITH POSSIBLE ISOLATED X-CLASS EVENTS FROM REGION
> 8824.

If further growth in these magnetic fields are noted tomorrow from this group, then the likelihood of an X-class flare increases. The wording of this forecast may be much stronger by tomorrow!

> IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 11/2100Z TO 12/2100Z:
> THE GEOMAGNETIC FIELD WAS AT ACTIVE LEVELS FROM 11/21-2400UT AND THEN
> QUIET TO UNSETTLED FOR THE REST OF THE PERIOD.

The active periods were caused by a brief increase in solar wind from a coronal hole.

> IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS
> EXPECTED TO CONTINUE TO BE QUIET TO UNSETTLED.

> III. EVENT PROBABILITIES 13 JAN-15 JAN
> CLASS M 60/60/60 <--- 60% chance of an M-class flare next 3 days
> CLASS X 20/20/20 <--- and 20% for an X-class. May be higher tomorrow
> PROTON 05/05/05
> PCAF YELLOW <--- A WARNING for a Polar Cap Absorption Event
in the higher latitudes -- sorry AL7FS!

> IV. PENTICTON 10.7 CM FLUX
> OBSERVED 12 JAN 196 <---- looking good
> PREDICTED 13 JAN-15 JAN 200/205/210
> 90 DAY MEAN 12 JAN 176

> V. GEOMAGNETIC A INDICES
> OBSERVED AFR/AP 11 JAN 015/016 <-- A little noisy yesterday
> ESTIMATED AFR/AP 12 JAN 010/012 <-- and today
> PREDICTED AFR/AP 13 JAN-15 JAN 010/012-005/005-005/005

...but quiet on friday and saturday.

72, Paul NA5N
National Radio Astronomy Observatory
Socorro, New Mexico

Although, this is not an official forecast/interpretation of the NRAO Observatory -- simply mine.

Date: Wed, 12 Jan 2000 23:53:23 -0500
From: "Jade Products, Inc." <jadepro@jadeprod.com>
To: "QRP-L List" <qrp-l@Lehigh.EDU>
Subject: [60201] 160 Meter antennas, a few thoughts...
Message-ID: <006d01bf5d82\$2049c3a0\$a0b6f7cd@engineering>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

QRP can be more competitive on 160 than many other bands. The logic behind this is simple: on the higher HF bands multi-element, high gain antennas are very common. This puts the simple antenna/indoor antenna station at a great disadvantage from an antenna point of view. Add into this running very low power and a dramatic difference in ERP (Effective Radiated Power) can be felt.

The situation on 160M can be considerably better because most folks cannot afford (nor is it very feasible) to put up a big, high gain antenna on 160M. The playing field becomes much more level, so to speak. Since the antennas tend to be more similar, the only differentiator between stations becomes the power level (and operator skill), and the difference between 5W and 100W, which as we all know is not that bad.

Very good results can be had with simple antennas on 160 (and to a somewhat lesser degree on 80M). The twin-lead Marconi that we sell at Jade was aimed at creating an antenna that was reasonably sized and yet allowed one reasonable performance. I designed this product around the one in Bill Orr's book: WIRE ANTENNAS, and for those that are looking to home-brew one, I encourage you to have a look. It is simple to build and gives excellent performance for the size. As usual, one should have as much ground on 160M as possible, but if an extensive ground system is impossible, don't rule out the band. My own Marconi here at K1YPP uses the hot water heat pipes in the house, and the line to the well and I have a ball on the band.

Even though he was running somewhat more than the average QRP station, see our WEB page: <http://www.jadeprod.com/marctest.html> for an example of what one can do on this band with average equipment.

See ya on the top band around 1.810 MHz soon?
Dennis, K1YPP

Jade Products, Inc.
PO Box 368
East Hampstead, NH 03826-0368

Phone: 603-329-6995
FAX: 603-329-4499
Telephone hours from 16:00 EST to 22:00 EST

Date: Wed, 12 Jan 2000 23:58:18 EST
From: RangerSF5@aol.com
To: qrp-l@lehigh.edu
Subject: [60202] Bob Hightower
Message-ID: <84.3f95c4.25aeb56a@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Bob,
You'r mail keep bouncing.
Box arrived today in great shape.
Thanks.
Bob
WA2HOQrp <tm>

Date: Thu, 13 Jan 2000 00:17:39 EST
From: KD6AXT@cs.com
To: qrp-l@lehigh.edu
Subject: [60203] The halogen lamp strikes again
Message-ID: <cd.d66846.25aeb9f3@cs.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

I started listening to a nice qrp signal on 40 tonite-- hand on the paddles ready to go- when this incredible racket wipes out the whole band. My son had just started his homework 2 rooms away and I recalled reading the thread about halogen lamps. I persuaded him to turn it on and off a few times and it seems to be the racket culprit.

I suppose I could just make him work in the dark-- but I'd be interested if anyone knows how to shut one of these things up. I know there is a whole art and science to finding and quieting down rf noise generators, what's the technique for one of these?

Dan

KD6AXT

anywhere in the line of the coax.) It has two scales. The power scale reads 0-2w and 0-20w. The other is the SWR scale. Meter deflection is adjustable, so that you can "turn it up" so that a full-scale SWR reading can be taken down to around 100mw. This is kind of important at QRP levels. Otherwise, a fixed 5w scale will let you see whether you've 1:1'd it or not. But SWR is not the key measurement.

Second, your resonance and feedpoint impedance are two sides of the same coin. Feedpoint impedance is composed of a resistive and a reactive component. Resonance is defined as the point at which the reactive component is zero. In order to find resonance, the instrument must be capable of separating the resistive and reactive components. Instruments like the AUTEK RF-1 cannot, but report the resultant simple impedance. The actual impedance of an antenna off-reonance is not a simple number, but a complex number indicating how much resistance and how much reactance is present, i.e., $Z=42-j27\text{ohms}$. Once you have this complex number, computer programs will let you calculate the SWR that will result.

The antenna "noise bridge" is the standard kind of unit. It will have two dials, one marked "R" and the other marked "X" (or resistance and reactance). Or, the LED readout will show not just " $Z=54\text{ Ohms}$ " (the resultant), but will show the complex number.

The high-flying MFJ259B and the AUTEK competitor (VF-1????) are capable of doing the job.

See my discussion in the Jna. QRP Quarterly for more details.

Antenna measurements and testing is great fun -- better than fishing!

72, Ade

Date: Wed, 12 Jan 2000 22:23:30 -0800
From: "Kory Hamzeh" <kory@avatar.com>
To: <qrp-1@lehigh.edu>
Subject: [60206] SW-40+ Elmer Sites
Message-ID: <001101bf5d8e\$b56caa40\$14ce21c7@tomcat.avatar.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi All,

I'm elmering a new tech+ ham on the SW-40+. When she saw me building my K-2, she became very interested in building her own rig. She just passed her 5

WPM code test last weekend. Since she seemed so interested, I bought her a SW-40+. She want to learn some of the theory (and other stuff) behind the SW-40 so that it would make passing her General easier.

Can someone send me the Elmer101 sites? I'm aware of <http://www.qsl.net/kf4trd/lessons.htm>, but I thought there was more.

73,
Kory
AC6RN

Date: Thu, 13 Jan 2000 00:27:23 -0600 (CST)
From: aweiss@usd.edu (Ade Weiss W0RSP)
To: qrp-l@lehigh.edu
Subject: [60207] 160 Times and Activity
Message-ID: <200001130627.AAA09220@sunburst.usd.edu>

Hi gang:

This is gettting to be fun! I listened to WB8QYY during QSB peaks in his QSO with KE2G tonite -- 70% copy. But when I called him after they finished, QSB set in and he went away! I'm getting to think, after several occurrence of this sort, that 0400Z is too late -- the band is shifting so that paths begin to change. I'm going to start trying around 0230, 0300, 0330. I heard some other QRP'rs in there tonite, but too weak to copy. Like, on the half-hour type of schedule. But hey, trying to copy WB8QYY was challenging fun -- fiddling with r.f. gain, ABX bandwidth to put the noise peak above his audio freq etc. Some day!

Question -- I swear that 160m is noisier this winter than ever before. Any other 160 types have an impression? I remember last Feb's 160 contest and the band was quiet so I could hear really weak sigs. Noise is S6/7 this year and doesn't seem to have subsided as it usually does. Am I just imagining this?

72, Ade

Date: Wed, 12 Jan 2000 22:43:05 -0800
From: Ed Loranger <we6w@netzero.net>
To: qrp-l@lehigh.edu
Subject: [60208] Self Aware:Radio Lives
Message-ID: <387D73F7.277FA319@netzero.net>

MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Sorry I'm early and it is not Friday yet, but this one just arrived.

Delete if you are seeking facts instead of insight.

Radio Lives -Ed Loranger

And so it occurred, drawn to the small circle of water forming at the base of his eaves, this ham operator became curious to the source of the drips. It had been raining but not for some hours. Above, contrasting with the crisp nighttime sky, deep blue but not dark as the moonlight had captured a ray of sun to release at this hour, the antenna availed its properties -- beyond collecting radio energy.

A wire, simply-formed, yet only so to a passer-by should they possibly discover it.. For to most, it was just a wire drawn tight for some unknown purpose to which it was marginally successful. But to us, we who brush away such snickers heard in the distance, it is not a wire such as would hold discarded newspapers. Not another task to keep the ham op busy trying to homebrew what surely could be had commercially.

No, it is much more. We had seen the trees as they formed a forest, twigs through the branches and leaves on the twigs. And as sand fills the holes between boulders in a jar, such is it that the jar continues not to be full. Cannot more water be added - or air?

By virtue of said thoughts, the ham radio operator continues to see beyond himself and find use for scraps of wire -- knowing that even toothpicks properly arranged can become a strong bridge.

And so it lives, responding to microvolts of radio energy, minute by minute,
as constant as free power from a never setting sun focused on a solar array. The energy of radio collects on this wire, available to one and all who believe in it. Bringing the world to he who is at this moment watching a drop of water skate along the wire, its bulging lower edge finally freeing itself for its destiny as part of a waterspot on the painted concrete porch.

One asks, is this one different? Does the audible sound of water striking the ground after riding the antenna, contain the detected signals as white noise in the audio spectrum?

So I wonder, is radio alive?

72/Ed we6w

--

72/Ed we6w; AR Millennium Q's=>2479/2000 A-1 OP
http://www.qsl.net/we6w Santa Rosa, CA
QRP-Z#106 AR#112 HI#64 ARCI#9397 ARS#275 L#1068 NC#2227

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Date: Wed, 12 Jan 2000 22:57:41 -0800 (PST)
From: Monte Stark <ku7y@dri.edu>
To: Ade Weiss W0RSP <aweiss@usd.edu>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [60209] Re: Antenna Measurements...Best Method/Device?
Message-ID: <Pine.GSO.4.10.10001122256310.28749-100000@rotor.dri.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 13 Jan 2000, Ade Weiss W0RSP wrote:

>
> Antenna measurements and testing is great fun -- better than fishing!
>

Hmmmmmm,

I know how to cook and eat fish but what the heck do I do with
SWR?

: -)

73, Ron

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@dri.edu....Washoe Lake, Nevada....NRA LIFE....
.....SOWP 5545M.....WHINERS #1.....ZOMBIE #18.....

Date: Wed, 12 Jan 2000 23:02:35 -0800 (PST)

From: Monte Stark <ku7y@dri.edu>
To: Ade Weiss W0RSP <aweiss@usd.edu>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [60210] Re: 160 Times and Activity
Message-ID: <Pine.GS0.4.10.10001122259480.28749-100000@rotor.dri.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 13 Jan 2000, Ade Weiss W0RSP wrote:

> Question -- I swear that 160m is noisier this winter than ever
> before. Any other 160 types have an impression? I remember
> last Feb's 160 contest and the band was quiet so I could hear
> really weak sigs. Noise is S6/7 this year and doesn't seem to
> have subsided as it usually does. Am I just imagining this?

Many long time 160m contestors and DXers have told me that 160m
has much more noise during the sun spot highs than it does
during poor sun spot condx.

Maybe Paul understands what happens.

I'll try to be there tomorrow after the Fox hunt.

cul,

73, Ron

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@dri.edu....Washoe Lake, Nevada....NRA LIFE....
.....SOWP 5545M.....WHINERS #1.....ZOMBIE #18.....

Date: Thu, 13 Jan 2000 07:26:34 GMT
From: "Bill Todd" <zapzap73@hotmail.com>
To: ae2t@arrl.net, qrp-l@Lehigh.EDU
Subject: [60211] Re: FOX Freqs
Message-ID: <20000113072634.22222.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

>From: "Al Gritzmacher " <ae2t@arrl.net>

>He'll learn from it and next year be better at it. First of all, >he sent
>an e-mail telling us to zero-beat him instead of the
>normal spreading out a bit. I wonder how many Hounds actually >followed

>that?

Every FOX makes up their own rules (within reason). MY rule is to ask that the Fox hunters only give their call once.

I have been copying CW for 32 years, so I guess you can say that I am fairly practiced at it. Tomorrow evening, I plan to write down 2 or 3 calls that I have heard, and then call them and make a complete contact one after another.

In theory, what I will attempt to do is to have the "FOX" frequency kept as clear as possible, so as to cut down on having to repeat information because someone keeps calling me.

We'll see how it goes Al (and group). My plan may not work in practice, but it is worth a try.

CUL, Bill-N7MFB

Get Your Private, Free Email at <http://www.hotmail.com>

Date: Thu, 13 Jan 2000 07:34:45 GMT
From: "Bill Todd" <zapzap73@hotmail.com>
To: longbeard@cybernet1.com, qrp-1@Lehigh.EDU
Subject: [60212] Re: FOX ALERT for 1/14/99 (N7MFB)
Message-ID: <20000113073445.40047.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

>Some of us still run antique equipment ... ie no RIT! Are you saying that
>because some of our ranges of hearing do not allow us to move far enuf off
>frequency, that we should be ignored?

Heck no Skip -

I did not mean that at all. In reality, most stations call the FOX very close to the FOX's given transmitting frequency. Occasionally however, I have noticed that a FOX will move his/her RIT up or down to get away from some of the noise, and they will catch a Fox hunter that way.

Catch you tomorrow evening -

Bill-N7MFB

Get Your Private, Free Email at <http://www.hotmail.com>

Date: Thu, 13 Jan 2000 04:25:44 -0500
From: "J. Ervin Bates" <w8erv@email.msn.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [60213] FS: Brass Racer EK-1 and Misc Heath gear
Message-ID: <009301bf5da8\$2b438f40\$fb451b3f@win98>

Hi all:

Well, the EK-1 is still here and available again, after someone decided they didn't really want em' all that bad. The Vibroplex Brass Racer EK-1....decent condition, needs some attention to the brass (polishing), otherwise it seems to be excellent condition mechanically. \$80 shipped CONUS. Please reply direct with questions.

Also have the following for sale. Heathkit gear, please add \$10 for shipping, CONUS:

Heathkit HD-15 Hybid Phone Patch \$20
Heathkit HM-15 Ref. Wattmeter \$25

Both appear to be in excellent condition (9+).

Thanks for your time, es 72...

Erv W8ERV

Date: Thu, 13 Jan 2000 04:47:26 -0500
From: "J. Ervin Bates" <w8erv@email.msn.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [60214] FDI Dates, pse
Message-ID: <009d01bf5dab\$338c80a0\$fb451b3f@win98>

Got an easy questions for the list lurkers out there.....what are the official dates for FDIM this year?

Thanks,
Erv W8ERV

Date: Thu, 13 Jan 2000 08:24:22 -0300
From: Kleibe Jacinto de Araujo <kleibe@anatel.gov.br>
To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>
Subject: [60215] Qrp Beacon on 21mhz!
Message-ID: <6A3A6C7C6177D311932B0000E21F2B78153869@ANATELMAILE>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

Hi gang,

I will test a qrp beacon on the weekend(15/16).
it operate at 3w on 21.057.im using a slooping dipole about 30ft(10mt) =
of
ground...

73=B4s
Kleibe Jacinto de Araujo
PP2KJA=20
Brazil

Date: Thu, 13 Jan 2000 06:12:21 -0500
From: Peter_Simpson@ne.3com.com
To: qrp-1@lehigh.edu
Subject: [60216] Another vote for "Earth and Sun"
Message-ID: <85256865.003D225A.00@usboxmta.ne.3com.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII

I have it on my Palm, too. I like it. Send the author a thank you

note if you use it. It is freeware, and David Bray (not a ham)
has done an excellent job. He says it's popular among hams :-)

<http://www.40-below.com/palm>

Peter, KA1AXY

Date: Thu, 13 Jan 2000 06:22:32 -0600
From: Sam_Stimson@Dell.com
To: w8erv@email.msn.com, qrp-1@Lehigh.EDU
Subject: [60217] RE: FDIM Dates, pse
Message-ID: <5F97C32016F1D1119B1700A0C98422E702D76133@ausxmbrh05.us.dell.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

If you go to the QRP ARCI web site, there is a whole section devoted to
FDIM. The official dates as published there are May 18 - 21.
<http://www.qrparci.org> will get you there.

Sam
N5WU

-----Original Message-----
From: J. Ervin Bates [mailto:w8erv@email.msn.com]
Sent: Thursday, January 13, 2000 3:47 AM
To: Low Power Amateur Radio Discussion
Subject: FDIM Dates, pse

Got an easy questions for the list lurkers out there.....what are the
official dates for FDIM this year?

Thanks,
Erv W8ERV

Date: Thu, 13 Jan 2000 05:05:55 -0700
From: tom whalen <wb5qyt@eFortress.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [60218] 160m mobile

Message-ID: <387DBFA3.69AB@eFortress.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gang,

On the way to work yesterday, I had a very nice qso with Tom N5TW while I was mobile heading to work. He gave me a 539 and he was 579. Not sure what he was using for an transmitt antenna but for receive he was using a 700' beverage! Lots of fun!

72, Tom WB5QYT..."Have spud will travel!"

Date: Thu, 13 Jan 2000 06:55:23 -0600
From: "Chuck Carpenter" <w5usj@globeco.net>
To: aweiss@usd.edu, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [60219] Re: 160 Times and Activity and WB8QYY
Message-ID: <3.0.2.32.20000113065523.007b89b0@bosshog.globeco.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Ade et al,

Heard you last evening on 1811 at 0237 with a good 569 signal. Tried to call you but the HF9V with a 5:1 SWR (best the tuner would do) was not doing much radiating.

Also heard a few other stations but no contacts their either.

The noise level was high when I first started listening but seemed to subside about 0230. I think my problem was line noise that quit when the temp went down.

This AM I heard WB8QYY at about 1115 or so with at least a 329 signal and QSB. Couldn't copy the station he was in QSO with at the time. Lots of other stations up and down the band this morning too with some really swinging the S meter..

The HF9V seems to be doing fair as a receiving antenna but need to do some serious work on the transmitting side. The top band is a new frontier for me and has really gotten my interest up. Got to get going with a suitable antenna.

Chuck Carpenter, EM22cv, Point, Rains County, Texas

Date: Thu, 13 Jan 2000 06:33:17 -0700
From: Thomas Kuehl <ac7a@gci-net.com>
To: aweiss@usd.edu
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [60220] Re: 160 Times and Activity
Message-ID: <387DD41D.6AABCD@ac7a@gci-net.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello Ade:

I've very been active on 160 CW the past 12 years, and I don't ever recall a winter conditions this... yucky! But I might also add that the overall sunspot maximum that is now upon us seems very anemic compared to previous I've experienced.

Not only does the naturally occurring noise seem worse on 160, but the manmade noise is worse than ever. I've got to had it to the various QRP stations I've worked the last few nights; they have really toughed it out. Thus far, the ones that I've worked are: KF7MD (CO), KK6MC/5 (NM), W7WIL (AZ), WA7LMW (UT), and NV5S (Alpine TX). I am running 4 W from my K2, to my 44-foot, top-loaded vertical.

Best Regards, Thomas - AC7A)Tucson)

Ade Weiss W0RSP wrote:

> Hi gang:
>
> This is gettting to be fun! I listened to WB8QYY during QSB
> peaks in his QSO with KE2G tonite -- 70% copy. But when
> I called him after they finished, QSB set in and he went away!
> I'm getting to think, after several occurrence of this sort,
> that 0400Z is too late -- the band is shifting so that paths begin to change.
I'm going to start trying around 0230, 0300, 0330. I heard some other QRP'rs in
there tonite, but too weak to copy. Like, on the half-hour type of schedule. But
hey, trying to copy WB8QYY was challenging fun -- fiddling with
> r.f. gain, ABX bandwidth to put the noise peak above his
> audio freq etc. Some day!
>
> Question -- I swear that 160m is noisier this winter than ever
> before. Any other 160 types have an impression? I remember

> last Feb's 160 contest and the band was quiet so I could hear
> really weak sigs. Noise is S6/7 this year and doesn't seem to have subsided as
it usually does. Am I just imagining this?
>
> 72, Ade

Date: Thu, 13 Jan 2000 05:55:31 -0800 (PST)
From: Philip Karras <ke3fl@yahoo.com>
To: qrp-l@lehigh.edu
Cc: K2UD@aol.com
Subject: [60221] Re: Antenna adjustments (was FRS)
Message-ID: <20000113135531.5221.qmail@web107.yahoomail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

K2UD@aol.com wrote:

If I had FRS or CB handhelds, the job of adjusting the
tuner at the base of
my end-fed 1/2 wave would be much easier. The person
in the shack looking at
the MFJ-259B could "talk" me in to the lowest SWR
while I'm outside
twiddling. Right now it's a matter of adjust, run
downstairs, adjust, run
downstairs, adj.... you get it.

I have two 2-meter handhelds, but I'm the only
licensed member of the family.
It's just not right to let the other person use one.
I'm too correct!

72
Howard Kraus, K2UD

If you're close enough to modify the antenna, can you
not take a short piece of coax with you and attach the
MFJ right there? On my dipole I can not do that since
I connect directly to the antenna (solder, no PL-259s)
but on my vertical I can since it has a connector.

If you solder directly to the antenna you could make a
short run of coax with clips on one end to attach to
the antenna (as long as you haven't yet covered them
over with glue or something else) and a pl-259 on the

other to go into the MFJ-259. (I wonder if they picked that number on purpose?)

Perhaps L.B. Cebik will grace us with his wisdom here, but I don't think the "extra" coax to the shack will negate the readings taken with the short coax to the MFJ.

(FRS HTs only cost \$80 a pair right now & still coming down! They do a wonderful job too. I've used them around a large church for parking duty.)

=====

Phil Karras, KE3FL
ke3fl@arrl.net
Alt: ke3fl@juno.com
Web: <http://www.qsl.net/ke3fl>

Do You Yahoo!?
Talk to your friends online with Yahoo! Messenger.
<http://im.yahoo.com>

Date: Thu, 13 Jan 2000 08:01:39 -0600
From: "Dan W. Dooley" <dandooley@pipeline.com>
To: "QRP List" <qrp-l@Lehigh.EDU>
Subject: [60222] Another Butternut Question
Message-ID: <004901bf5dce\$b73df3c0\$04987b7b@dooleydw>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Recently I had some exchanges with someone on the list concerning the HF9V. He was gracious enough to send to me a length of stiff wire which is to be used to replace the wire elements Butternut uses for 15 and 6 meters. I have some follow-up questions before I proceed with the project but apparently have discarded all the previous e-mail message so don't recall who he is other than 'Mark'. The purpose of using this new stiff wire is to reduce the detuning affects of wire movement by wind.

For anyone with knowledge of the subject: Butternut says to cut the wire to a specific length and then mount it on the brackets in position. Wrapping the excess of the wire back up the wire and securing it. If the resonant

frequency is determined to be wrong, then using the same length of wire - for example if the element needs to be shortened - simply wrap the bottom end up around the wire, but DO NOT cut it. The supplied wire is insulated. This new wire is bare. I'm not sure how long to make the initial length and how does wrapping the bottom end of the wire around itself work if it is bare and will "short" itself.

So, Mark, if you read this could you reply off list to me. Or anyone else with any ideas.

Tnx.

Dan W. Dooley WB5TKA
e-mail to: dandoooley@pipeline.com
Si Hoc Legere Scis Nimium Eruditionis Habes

Date: Thu, 13 Jan 2000 08:03:33 -0600
From: Sam_Stimson@Dell.com
To: qrp-l@Lehigh.EDU
Subject: [60223] Super Antennas
Message-ID: <5F97C32016F1D1119B1700A0C98422E702D7613D@ausxmbrh05.us.dell.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Has anyone in this group purchased the little vertical antenna sold by Super Antennas? Any reports on it's performance? I have a K2 and am back to traveling again and this looked like the ideal travel antenna....

Sam
N5WU

Date: Thu, 13 Jan 2000 06:09:20 -0800 (PST)
From: Philip Karras <ke3fl@yahoo.com>
To: qrp-l@lehigh.edu
Subject: [60224] RE: OT: Comm Quart and ARRL. (And CQ, CQ VHF)
Message-ID: <20000113140920.7902.qmail@web107.yahoomail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

If you are wondering about CQ magazine check out their web site at:
<http://www.cq-amateur-radio.com/>

=====

Phil Karras, KE3FL
ke3fl@arrl.net
Alt: ke3fl@juno.com
Web: <http://www.qsl.net/ke3fl>

Do You Yahoo!?
Talk to your friends online with Yahoo! Messenger.
<http://im.yahoo.com>

Date: Thu, 13 Jan 2000 08:09:48 -0600
From: Sam_Stimson@Dell.com
To: Sam_Stimson@Dell.com, qrp-1@Lehigh.EDU
Subject: [60225] RE: Super Antennas
Message-ID: <5F97C32016F1D1119B1700A0C98422E702D7613E@ausxmbrh05.us.dell.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

I guess I should have been more specific, it is the PW-1 Vertical.....

-----Original Message-----

From: Sam_Stimson@Dell.com [mailto:Sam_Stimson@Dell.com]
Sent: Thursday, January 13, 2000 8:04 AM
To: Low Power Amateur Radio Discussion
Subject: Super Antennas

Has anyone in this group purchased the little vertical antenna sold by Super Antennas? Any reports on it's performance? I have a K2 and am back to traveling again and this looked like the ideal travel antenna....

Sam
N5WU

Date: Thu, 13 Jan 2000 10:14:14 -0500
From: "Dieter Gentzow - WB8QYY" <wb8qyy@one.net>
To: <qrp-1@Lehigh.EDU>
Cc: <n4roa@mounet.com>
Subject: [60226] OPERATING: 160 M QRPpppp
Message-ID: <00d901bf5dd9\$894e26f0\$0102030a@amd300>
MIME-Version: 1.0
Content-Type: text/plain;

charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Hi folks,

Not sure if anyone ever uses this subject category but...

Another great day on 160!!! Looks like we have a new MilesPerWatt record. Had a schedule with Jim-KJ5TF and Dan-N4ROA to try and better the 10,000 MPW (not a record) from yesterday morning. Jim called me at 11:30Z with 700 mW and he was only 229; not very encouraging. A few minutes later, Dan broke in from Gate City, VA. I think we did the QRPP limbo from 200 mW to 65 mW to 20 mW and finally ended up at 12 mW. I gave Dan a 219 at 20 mW and a 119 at 12 mW. Maybe we could have lowered the power further but good ol Dan had to QRT for work or some silly thing :)
We were able to exchange power figures and RST numbers and then QSL'ed the data.

The amazing thing is that when all the QRM and QRN is down, his signal was very readable. Had to turn off all the TV sets in the house along with any Flourecent lamps and the computer too. For the record, I think my antenna is a cloud burner for very close-in qso's on 160. It's only up an average of 30 feet in the trees around my house, total length about 470 feet in the shape of a pentagon, and my property slopes downhill at an angle towards the SE which MAY favor Dan.

With good band conditions and silent neighbors, I do not expect the new 16,833 MPW figure to hold very long.

Now to get my horizontal loop up another 30 feet to bring up Jim's signal.

73 - Dieter (DIZ) Gentzow - WB8QYY "oo's"
Loveland, Ohio - NE suburb of Cincinnati
FPqrp#-1 DL-QRP-AG#1454 QRP-L#1998 10-X#9389 CATT#26 K2#493
<http://w3.one.net/~gentzow/wb8qyy.htm>

Date: Thu, 13 Jan 2000 10:24:13 -0500
From: "Michael Bower - N4NMR" <bowerm@ix.netcom.com>
To: "qrp-l" <qrp-l@lehigh.edu>
Subject: [60227] Wilderness SST vs SW+40
Message-ID: <03fd01bf5dda\$3fb76320\$0100a8c0@dadsmachine>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

I've been thinking about getting and building the SW+40 from Dave Benson for several months. This is mostly to use with the Elmer101 course as I already have the DSW40 (love it).

Recently I was loaned (but have not put on the air) the Wilderness SST qrp rig. What a lovely sized rig.

Now I want both. Wisdom has to ask "how many 40 m rigs does one need?"

So I'm looking for comments on both the SST and the SW+40 rigs, in particular, comparisons.

I don't mean to start a "rig war", just gentle comments please. (But honest, too.)

Thanks in advance.

Michael - N4NMR

Date: Thu, 13 Jan 2000 09:22:29 -0600
From: Dick Carroll <dixie@townsqr.com>
To: aweiss@usd.edu
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [60228] Re: 160 Times and Activity
Message-ID: <387DEDB5.E88BD49F@townsqr.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Ade,

Yes, 160 is noisier than usual this winter. I'd say it's because of the far milder winter this one has been, so far. Yesterday it was in the low 60's here in south Missouri, well over 20 degrees above the normal high temperature. Lots more atmospheric noise results, even thunderstorm QRN at times is present here.

Last night I tuned onto 1810khz and heard a weak but readable CQ. It was Mert, W0UFO in St.Paul,MN running 5 watts. With just a little help from the DSP on the IC756, by dodging QSB, and with me running a full 100 watts we were able to make a 100% CW QSO. (I haven't had the 756 long

enough to get it all figured out and set up for QRP yet, but intend to do so vry soon. The 500cps filter set is also sitting on the desk ready to install). And I've got a couple of real QRP rigs to use, too.

IF I can get the 200 feet of 10 year old, buried 9913 feedline to convey enough of their output to excite the antenna!

See you on 1810.

160 was not in good shape for QRP last night, but there is still plenty of winter remaining. It's against my nature to hope for colder weather, but....

73, Dick W0EX

Ade Weiss W0RSP wrote:

>

> Hi gang:

>

> This is gettting to be fun! I listened to WB8QYY during QSB
> peaks in his QSO with KE2G tonite -- 70% copy. But when
> I called him after they finished, QSB set in and he went away!
> I'm getting to think, after several occurrence of this sort,
> that 0400Z is too late -- the band is shifting so that paths begin to change.
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> r.f. gain, ABX bandwidth to put the noise peak above his
> audio freq etc. Some day!

>

> Question -- I swear that 160m is noisier this winter than ever
> before. Any other 160 types have an impression? I remember
> last Feb's 160 contest and the band was quiet so I could hear
> really weak sigs. Noise is S6/7 this year and doesn't seem to have subsided as it usually does. Am I just imagining this?

>

> 72, Ade

Date: Thu, 13 Jan 2000 10:27:35 EST

From: Drbob92031@aol.com

To: KD6AXT@cs.com, qrp-l@lehigh.edu

Subject: [60229] The halogen lamp strikes again

Message-ID: <c4.6d77c5.25af48e7@aol.com>

MIME-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Content-Transfer-Encoding: 7bit

To Dan et al;

How to quiet halogen lamps. 50 years ago when I was in undergraduate coll. and then on to med. school all the lights we 100 watt incandescent bulbs. We got thru our studies. Halogen lamps will not make you a "quicker study."
Change to old fashioned screw base bulbs.
72/73...de bob wa2eaw

Date: Thu, 13 Jan 2000 10:32:09 -0500
From: "Mike Pupeza" <mpupeza@softecsys.net>
To: <qrp-1@lehigh.edu>
Subject: [60230] Fw: Is #28 too thin for 'invisible' antennas?
Message-ID: <000f01bf5ddb\$5cab1480\$1b5665d1@palmnet.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Gang;

I hope this isn't a duplicate message! I'm having some problems!

I have, in the past, used #28 gauge enamelled wire for 'Invisible' antennas for HF. Usually I would run a hundred, or so, of insulated 22 gauge hookup wire as a 'counterpoise' wherever I could, along the balcony, hanging down, whatever. Then I would run whatever length of #28 wire, through buttons, and monofilament fishing line out in the open, for another 80 to 100 feet - whatever would fit, and not be seen too easily!
These condo's in Florida are often strict!
I would feed these with a length of 450 Ohm open wire line to my LDG tuner.
It worked!
How well, I never did know.

Recently, I was advised by others (more knowledgeable????) that #28 is TOO THIN
for an antenna, even though I rarely run more than QRP levels - 10-15W PEP SSB!

Any comments?

Would I get SUBSTANTIAL improvements in going to heavier gauge wire?
I am trying to get some WHITE Teflon covered wire for the antenna, natural enamelled is TOO VISIBLE!

All ideas and opinions welcome! Be aware that I have tried MANY things over the years - this has been the BEST so far!

72, 73

Mike Pupeza VE3EQP

Date: Thu, 13 Jan 2000 09:42:03 -0600
From: Karl Kanalz <KKanalz@excel.com>
To: "'mpupeza@softecsys.net'" <mpupeza@softecsys.net>, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [60231] RE: Is #28 too thin for 'invisible' antennas?
Message-ID: <2D343922E283D211945C0008C7A41B2A01A742EB@adntex01.adsn.dal.excel.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Naw! #28 wire isn't too small for an antenna, Mike! It'll work just fine, but the results you obtain, of course, will be dependent on height above ground, proximity to absorbing materials, resonance at the operating frequency, etc.

Your #28 will do just fine for a stealthy antenna.

Karl K - W8TIF
McKinney, Texas

-----Original Message-----
From: Mike Pupeza [mailto:mpupeza@softecsys.net]
Sent: Thursday, January 13, 2000 9:32 AM
To: Low Power Amateur Radio Discussion
Subject: Fw: Is #28 too thin for 'invisible' antennas?

Hi Gang;

I hope this isn't a duplicate message! I'm having some problems!

I have, in the past, used #28 gauge enamelled wire for 'Invisible' antennas for HF. Usually I would run a hundred, or so, of insulated 22 gauge hookup wire as a 'counterpoise' wherever I could, along the balcony, hanging down, whatever. Then I would run whatever length of #28 wire, through buttons, and monofilament fishing line out in the open, for another 80 to 100 feet - whatever would fit, and not be seen too easily! These condo's in Florida are often strict! I would feed these with a length of 450 Ohm open wire line to my LDG tuner. It worked!

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All ideas and opinions welcome! Be aware that I have tried MANY things over the years - this has been the BEST so far!

72, 73

Mike Pupeza VE3EQP

Date: Thu, 13 Jan 2000 10:44:05 -0500
From: Ken Newman <N2CQ@citnet.com>
To: QRP-L@lehigh.edu, njqrp@njqrp.org
Subject: [60232] CONTEST: QRP Calendar This Weekend
Message-ID: <3.0.6.32.20000113104405.00944c90@mail.citnet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

QRP CALENDAR

JANUARY 15/16, 2000

~~~~~  
2000 CW QRP Contest ... QRP Contest!

Jan 15 - 1200z to Jan 16 - 2359z

Rules: <http://www.tir.com/~n8cqa/rules2000.htm>

~~~~~  
North American QSO Party (SSB) ... QRP Interest

Jan 15 - 1800z to Jan 16 - 0600z

Rules: <http://www.waterw.com/~ncj/naqso.htm>

~~~~~  
AND LATER .....  
~~~~~

ARRL VHF Sweepstakes ... QRP Portable Category

Jan 22 - 1900z to Jan 24 - 0400z

<http://www.arrl.org/contests/announcements/01vhfss.html>
~~~~~

CQ WW 160-Meter DX Contest (CW) ... QRP Category

Jan 28 - 2200z to Jan 30 - 1600z

Rules: <http://www.cq-amateur-radio.com/160rules99.html>  
~~~~~

UBA DX Contest (Belgian) (SSB) ... QRP Category

Jan 29 - 1300z to Jan 30 1300z

Rules: <http://www.uba.be/Engels/framesgb.htm>
~~~~~

72 de

Ken Newman - N2CQ

Woodbury, NJ

N2CQ@ARRL.NET

~~~QRP Contest Calendar~~~

<http://www.njqrp.org/data/contesting.html>

~~~WQ2RP NJQRP Club Station~~~

-----  
Date: Thu, 13 Jan 2000 08:59:11 -0700

From: Tayloe Dan-P26412 <Dan.Tayloe@motorola.com>

To: "'qrpl'" <qrpl@Lehigh.EDU>  
Subject: [60233] RF power measurement discrepancies?  
Message-ID: <87568F78ABDCD211A0AC0008C707718B31957C@az10exm03.sat.mot.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

I have been trying to take some RF power measurements on some QRP equipment lately and I am getting conflicting answers. I bow to the wisdom of the net here to help resolve what I am seeing.

The first method is to look at the RF voltage on my 60 MHz scope. I have a signal generator that seems to indicate that the frequency response of my scope is flat out to about 19 MHz, at which point the voltage frequency response has rolled off to about 90% of nominal.

The second method is to measure and filter the RF peak voltage using a diode (1N914 type) and a filter cap (0.1 uf bypass).

What I am seeing is that when the scope sees 12v peak directly from the RF waveform (about 1.44w), the scope also measures just under 14v (13.9v + 0.6v diode drop = 14.5v peak) which is about 2.1 watts. That is quite a difference!

The RF waveform looks clean with no discernable modulation on it to account for extraneous rf peaks. The transmitter is feeding a 50 ohm dummy load. The RF voltage is measured in two places by two separate diode detectors and both agree with each other, but not with the RF waveform. The signal is at 7 MHz, where the scope seems to have a very flat frequency response.

Has anyone else run into this problem?

I have been driven crazy enough by this that I am considering dunking a 50 ohm load in a Styrofoam cup of water and do a basic heat build up test!

Help!

- Dan Tayloe, N7VE; Phoenix, Az; Az ScQRPions

-----  
Date: Thu, 13 Jan 2000 08:02:24 -0800 (PST)  
From: Jeff <fantbb@yahoo.com>  
To: qrp qrp <qrpl@lehigh.edu>  
Subject: [60234] RE: Is #28 too thin for 'invisible' antennas?  
Message-ID: <20000113160224.18194.qmail@web125.yahoomail.com>

MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

--- Karl Kanalz <KKanalz@excel.com> wrote:  
> Naw! #28 wire isn't too small for an antenna, Mike! It'll work  
> just fine,  
> but the results  
> you obtain, of course, will be dependent on height above ground,  
> proximity  
> to absorbing  
> materials, resonance at the operating frequency, etc.

I used #28 wire for a stealth antenna and it worked fine. However the main drawback was that it kept breaking. Just the action of the wind would eventually cause it to break at the at the stress points. I ended up using #14 vinyl covered wire just because I got tired of fixing it about once a month. As far as signals concerned I noticed no diffence. You could run 100 watts to #28 wire and worst case it might get slightly warm but you'll get out just fine. Though it would be interesting to see what a kilowatt would do. 8-)

73!

Jeff

=====

Jeff Jones  
AB6MB  
Norcal QRP Net 7045 Sunday 6pm PST Monday 0200 UTC  
NorCal QRP Club #65, QRP-L #1780, ARCI 10071  
Radical FIST Member 6798  
Voicemail/Fax 1-888-Excite2 ext 925-439-2514

-----  
Do You Yahoo!?  
Talk to your friends online with Yahoo! Messenger.  
<http://im.yahoo.com>

-----

Date: Thu, 13 Jan 2000 00:37:47 -0600  
From: Clifton W Sikes <ab5uacw@juno.com>  
To: qrp-l@Lehigh.EDU  
Subject: [60235] FOX: Fox Buro.....it's working!  
Message-ID: <20000113.003748.6742.2.ab5uacw@juno.com>

I got a packet of cards, via the Fox Buro :-) I love getting QSL's. Doesn't matter if they are from New Delhi, or New York. The folks on this list make some of the best I've ever seen. Thank you!

The Chesseheads are doing us a big favor, so let's make 'em work. Thanks guys.

72,

Clif AB5UA  
Earlsboro, Ok ( east of OKC )

-----  
YOU'RE PAYING TOO MUCH FOR THE INTERNET!  
Juno now offers FREE Internet Access!  
Try it today - there's no risk! For your FREE software, visit:  
<http://dl.www.juno.com/get/tagj>.

-----  
Date: Thu, 13 Jan 2000 10:17:04 -0600  
From: "Dan W. Dooley" <dandooley@pipeline.com>  
To: <fantbb@yahoo.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [60236] Re: Is #28 too thin for 'invisible' antennas?  
Message-ID: <003201bf5de1\$a2fa4a40\$04987b7b@dooleydw>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

How do you say "P00F!"

Dan W. Dooley WB5TKA  
e-mail to: dandooley@pipeline.com  
Si Hoc Legere Scis Nimium Eruditionis Habes

----- Original Message -----  
From: Jeff <fantbb@yahoo.com>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Sent: Thursday, January 13, 2000 10:02 AM  
Subject: RE: Is #28 too thin for 'invisible' antennas?

> might get slightly warm but you'll get out just fine. Though it would  
> be interesting to see what a kilowatt would do. 8-)

-----

Date: Thu, 13 Jan 2000 08:32:19 -0800 (PST)  
From: Curt Milton <wb8yyy@yahoo.com>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [60237] Re: The halogen lamp strikes again  
Message-ID: <20000113163219.11213.qmail@web2004.mail.yahoo.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

Perhaps I did not see the original post ... but this reminded me about my experience. If you are planning to buy track lights read on ....

We moved out to the countryside ... a little more space for antennas ... noise level reduced from S3-4 sometimes to not moving the S-meter.

Then none day ... S7 on 20m! Turns out it was from halogen track lights in the kitchen. Its not the bulb in this case - but the power supplies that convert to low voltage DC are extremely noisy ... and i suspect i had just enough track to be resonant around 14 MHz - noise peaked here but was on all bands.

Since each track lamp has a noisy supply (i verified each was just as noisy) ... the solution was to replace these track fixtures with incandescents. these fit into the same tracks - have no electronics in them. the light isn't as pleasing as the halogens but QRM is gone.

=====

Curt WB8YYY  
Eldersburg, Maryland

<http://www.qsl.net/wb8yyy>  
HW-8, 40m ugly weekender, 38S

-----  
Do You Yahoo!?  
Talk to your friends online with Yahoo! Messenger.  
<http://im.yahoo.com>

-----

Date: Thu, 13 Jan 2000 10:09:46 -0700  
From: Bruce Toback <btoback@optc.com>

To: <KD6AXT@cs.com>, <qrp-1@Lehigh.EDU>  
Subject: [60238] Re: The halogen lamp strikes again  
Message-ID: <200001131829.LAA24733@landru.optc.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"

Dan, KD6AXT, writes:

>I started listening to a nice qrp signal on 40 tonite-- hand on the paddles  
>ready to go- when this incredible racket wipes out the whole band. My son  
>had  
>just started his homework 2 rooms away and I recalled reading the thread  
>about halogen lamps. I persuaded him to turn it on and off a few times and  
>it  
>seems to be the racket culprit.  
>... I'd be interested if  
>anyone knows how to shut one of these things up.

One thing to try is a commercial power line RFI filter -- but put it on  
the lamp, not on the rig. This has worked well for me in similar  
situations.

-- Bruce

-----  
Bruce Toback      Tel: (602) 996-8601| My candle burns at both ends;  
OPT, Inc.                (800) 858-4507| It will not last the night;  
11801 N. Tatum Blvd. Ste. 142      | But ah, my foes, and oh, my friends -  
Phoenix AZ 85028                    | It gives a lovely light.  
btoback@optc.com                    |      -- Edna St. Vincent Millay

-----  
Date: Thu, 13 Jan 2000 08:53:17 -0800  
From: Bill H Ross <k6mgo@juno.com>  
To: qrp-1@Lehigh.EDU  
Subject: [60239] Fw: Re: Antenna Measurements...Best Method/Device?  
Message-ID: <20000113.090931.-321689.1.k6mgo@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit

They say that it tastes like chicken.  
73,  
Bill, K6MGO

----- Forwarded message -----

From: Monte Stark <ku7y@dri.edu>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Date: Wed, 12 Jan 2000 22:57:41 -0800 (PST)  
Subject: Re: Antenna Measurements...Best Method/Device?  
Message-ID: <Pine.GS0.4.10.10001122256310.28749-100000@rotor.dri.edu>

On Thu, 13 Jan 2000, Ade Weiss W0RSP wrote:

>  
> Antenna measurements and testing is great fun -- better than fishing!  
>

Hmmmmmm,

I know how to cook and eat fish but what the heck do I do with  
SWR?

: -)

73, Ron

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....  
....ku7y@dri.edu....Washoe Lake, Nevada....NRA LIFE....  
.....SOWP 5545M.....WHINERS #1.....ZOMBIE #18.....

-----  
Date: Thu, 13 Jan 2000 11:19:51 -0600  
From: "Ed Manuel (N5EM)" <n5em@flash.net>  
To: mpupeza@softecsyst.net  
Cc: qrp-l@lehigh.edu  
Subject: [60240] Re: Fw: Is #28 too thin for 'invisible' antennas?  
Message-ID: <4.1.20000113110722.009a97a0@pop.flash.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

>Recently, I was advised by others (more knowledgeable????) that #28 is TOO  
>THIN

Mike,

28 gauge is fine. However, I prefer a product that you can get from The  
Wireman. It is a 28 ga. stranded product with a black high density jacket  
- still very small and inconspicuous. Also, the strands that make up the  
28 ga. conductor are copper coated steel (like copperweld TM). I've even

laid it out in loose coils on a large piece of cardboard and sprayed flat gray paint on it to "mottle" it's appearance. Pretty hard to see if it's up 20 ft. over people's heads. The problem with enameled wire is that it will catch the sun and reflect it at certain angles. Still very hard to see but if you view it just right it really stands out.

Also, I like monofilament for insulators with the absolute minimum transition at the end of the wire - like a fisherman's knot.

Another product I'm going to start using is a fishing line called "Spyderwire". Check it out at a fishing supply. Super strong, very small, nearly impossible to see.

Stealth is good.

Ed, N5EM

-----  
Date: Thu, 13 Jan 2000 11:42:46 -0600  
From: Johnny <km5im@telepath.com>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>, "gqrp@onelist.com" <gqrp@onelist.com>  
Subject: [60241] Need help on  
Message-ID: <387E0E95.1A9C3DED@telepath.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hi

I am upgrade to extra class need some help on the following:  
Exams question  
E5E Impedances and phase angles of series and parallel circuits

I need some formula examples how to calculate these problems can some one direct me to a web page or something on this.

Thanks  
Johnny KM5IM

-----  
Date: Thu, 13 Jan 2000 11:51:27 -0600  
From: "George T. Baker" <w5yr@worldnet.att.net>  
To: Dan.Tayloe@motorola.com



Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [60242] Re: RF power measurement discrepancies?  
Message-ID: <387E109F.530AAFDA@worldnet.att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Dan, sounds like your problem originates from the loading on the diode rectifier circuit produced by whatever you are using to measure the voltage. The scope probably has an input resistance in the order of 10 megs or so, as would the typical DMM. This load will affect the voltage on the capacitor.

The diode/capacitor circuit will charge the cap up to the peak r-f voltage, but any loading caused by the metering circuit will reduce this voltage. The classic r-f probe circuit shown in the Handbook for many years used this effect to reduce the otherwise peak voltage measurement to approximately the rms level so that the output power was approximately the measured voltage squared divided by the load resistance.

I don't think that you want to add the diode drop to the cap voltage to estimate the peak r-f voltage. Unloaded, the cap has already charged up to the peak voltage. Loaded, its voltage will be lower, depending upon the load resistance. I have no idea why you appear to be measuring a higher voltage with the diode/cap setup than with the scope, but something clearly is not right there. I must not be understanding your description.

In any event, if you use the same scope for both measurements, any voltage calibration error in the scope should cancel out. I would rely upon the r-f voltage measurement rather than the diode detector measurement. The peak voltage times 0.707, quantity squared, divided by the load resistance across which the voltage is measured, should be a fairly accurate measure of the r-f power under steady-state conditions (constant waveform amplitude).

72/73, George

Fairview, TX 30 mi NE Dallas in Collin county  
Amateur Radio W5YR, in the 54th year and it just keeps getting better!  
R/C since 1964 - AMA 98452 RVing since 1972

Tayloe Dan-P26412 wrote:

>  
> I have been trying to take some RF power measurements on some QRP  
> equipment lately and I am getting conflicting answers. I bow to the wisdom  
> of the net here to help resolve what I am seeing.  
>

> The first method is to look at the RF voltage on my 60 MHz scope.  
> I have a signal generator that seems to indicate that the frequency  
> response of my scope is flat out to about 19 MHz, at which point  
> the voltage frequency response has rolled off to about 90% of nominal.  
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> The second method is to measure and filter the RF peak voltage  
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> What I am seeing is that when the scope sees 12v peak directly  
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> just under 14v (13.9v + 0.6v diode drop = 14.5v peak) which is  
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> The RF waveform looks clean with no discernable modulation  
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> a 50 ohm dummy load. The RF voltage is measured in two places by  
> two separate diode detectors and both agree with each other, but  
> not with the RF waveform. The signal is at 7 MHz, where the scope  
> seems to have a very flat frequency response.  
>  
> Has anyone else run into this problem?  
>  
> I have been driven crazy enough by this that I am considering  
> dunking a 50 ohm load in a Styrofoam cup of water and do a  
> basic heat build up test!  
>  
> Help!  
>  
> - Dan Tayloe, N7VE; Phoenix, Az; Az ScQRPions

-----  
Date: Thu, 13 Jan 2000 13:16:21 -0500  
From: "Richard E. Robinson" <rerobins@email.uncc.edu>  
To: qrp-l@lehigh.edu  
Subject: [60243] Sierra Radio MN-9 in Nuts and Volts  
Message-ID: <v03102803b4a3c5d7b9d3@[152.15.144.71]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Last week I received my January issue of Nuts and Volts and noticed that Halted Supply is no longer advertising the Sierra MN-9 qrp rig. There is no mention of it on their web page.

Does anyone know what happened to the MN-9? Did anyone get one?

72,

Rick kf4ar

-----  
Date: Thu, 13 Jan 2000 13:16:50 -0500  
From: Ron Majewski <majewski@erim-int.com>  
To: qrp-l <qrp-l@lehigh.edu>  
Subject: [60244] 160m Milliwatting at W8RU  
Message-ID: <387E1692.302CEFEA@erim-int.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hi All,

Jim, KJ5TF, has gotten me interested in 160m milliwatting and a go for the miles-per-watt record.

My commercial transceiver will put out 2.5 watts on the low end, so I needed to build up an attenuator to drop that down. Fortunately I found something in the junk drawer that was ready to go. A old but functional 10dB per step unit from HP.

Last night I heard WB8QYY, AF4PX, NF0R, and W0RSP around 1.810 MHz. I made no calls because I hadn't yet found the attenuator.

This morning KJ5TF and I made a partial QSO with 500mW on my end and 700mW on his. I also copied WB8QYY as he finished a QSO with Jim.

I'll be on again this evening between 0330utc and 0430utc, and again on Friday morning between 1200utc and 1300utc. Please call in if you hear me.

72!

Ron (W8RU).

-----  
Date: Thu, 13 Jan 2000 13:45:45 -0500  
From: "Mike Czuhajewski" <wa8mcq@erols.com>  
To: "QRP forum" <qrp-l@lehigh.edu>  
Subject: [60245] Last call for QRP Hall of Fame 2000  
Message-ID: <000c01bf5df6\$670545c0\$5ab0db26@MCzuhajewski.EVI-INC.COM>  
MIME-Version: 1.0  
Content-Type: text/plain;

charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

The deadline for nominations for the QRP Hall of Fame for 2000 is getting close, and here's your final chance if you want to nominate someone for possible induction this year. Here are the details. (This may look familiar; it's a modified form of the call for nominations I sent back in October.)

The QRP Hall of Fame is an honors program administered by the QRP ARCI. If you feel someone has had a significant impact on the QRP community through outstanding accomplishments (technical, operating, organizational, etc), it's time to nominate them for this honor. You have until the end of January to get your write-ups to me, WA8MCQ, via mail or e-mail. The nominations will be collected and sent to the voters, we'll take a week or so to discuss them via e-mail before voting, and the inductees (if any) will be announced at Dayton. (A 2/3 vote is required for induction.)

The basic voting body consists of the Board of Directors, President and Vice President (a position which is vacant at the moment). For the last 3 years we gave the QRP HoF members the option of voting if they wished, and several of them accepted. That option will be extended again this year, although we'll have to start limiting it in some way in the future as the numbers involved become increasingly unwieldy.

Nominations may be submitted by anyone, whether a member of the QRP ARCI or not. Similarly, membership is not required for someone to receive the honor, since this is an award to recognize those who have made great contributions to the QRP community, not just to the QRP ARCI.

If submitting a nomination, you must do more than simply toss out a name. We need to have a few paragraphs giving some details of the accomplishments, telling us why the person is worthy of being in the QRP Hall of Fame. Don't count on all of the voters knowing everything about your favorite QRP hero; you think they are worthy of the honor and it's your duty to convince us. In the past, it was not unusual to see comments to the effect that since someone didn't bother to write more than a line or two, then the nominee must not be very worthy of getting the vote.

(If anyone would like to see an example of an excellent, very well written nomination, send me e-mail and I'll forward the one that KI6DS wrote on NA5N last year. I posted it to qrp-l in October, but won't repeat it here, to conserve bandwidth.)

While we have no list of specific requirements to meet for induction, we do have some guidelines. In general, nominees should be someone who has made significant contributions to QRP in one or more areas, and preferably things

benefiting a large number of people. Long term contributions carry much more weight than limited, short term ones. Nominees have a much better chance of induction if they have been actively serving the QRP community for an extended period of time, ie, several years. Naturally, the nomination letters should only include information on achievements that are related to QRP.

Send all nominations to me, WA8MCQ. Important: all inputs must be acknowledged by me! If you do not hear back from me in a short time, please assume that I never received it, and let me know. I'd hate to see someone lose out on the chance to be inducted because a letter or e-mail never got through. This is especially important since we're close to the deadline now. We're not going to wait for a couple weeks after the deadline to catch any stragglers.

As always, each nominee is judged on his/her merits; this is not a competition to choose the top two or three or whatever. There are no quotas and no limits. If the voters don't feel any nominees truly deserve the honor this time around, none will be inducted simply for the sake of having someone to announce at Dayton. On the other hand, if there are a dozen nominees and all are judged worthy, all will be inducted. (And we get a quantity discount on the plaques!)

The following, in alphabetical order, are the current QRP Hall of Fame members; do not nominate them!

Chuck Adams, K5FO  
Brice Anderson, W9PNE  
Dave Benson, NN1G  
Wayne Burdick, N6KR  
George Burt, GM30XX  
Jim Cates, WA6GER  
L. B. Cebik, W4RNL  
Tom Davis, K8IF  
Doug DeMaw, W1FB (silent key)  
Rev. George Dobbs, G3RJV  
Paul Harden, NA5N  
Wes Hayward, W7ZOI  
Doug Hendricks, KI6DS  
Roy Lewallen, W7EL  
Rick Littlefield, K1BQT  
Dick Pascoe, G0BPS  
Randy Rand, AA2U  
C. F. Rockey, W9SCH  
Gus Taylor, G8PG  
Adrian Weiss, W0RSP  
(And WA8MCQ, done in 1997, behind my back)

Remember, if there is someone you feel is deserving of being inducted into the QRP Hall of Fame, you have until the end of January to submit a nominating letter or e-mail to me. BTW, I prefer that they be done by private e-mail and not public posting on qrp-l. Two reasons: first, I just scan the html archives at lunchtime at work, and skip over most of the posts; I could very easily miss one. Second, qrp-l has more than enough traffic as it is, and we don't need to add to the clutter with dozens of "me too!" posts whenever someone posts a nomination :-)

73 and queue our pea DE WA8MCQ

-----  
Date: Thu, 13 Jan 2000 14:00:15 -0500  
From: "Mike Czuhajewski" <wa8mcq@erols.com>  
To: "QRP forum" <qrp-l@lehigh.edu>  
Cc: "Mike Czuhajewski" <wa8mcq@erols.com>  
Subject: [60246] Additional notes on QRP Hall of Fame  
Message-ID: <000d01bf5df8\$6d7f6000\$5ab0db26@MCzuhajewski.EVI-INC.COM>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

One more comment about the QRP Hall of Fame, for which the deadline for nominations is the end of January:

Negative inputs that I receive will be summarily discarded and will not go beyond my mailbox. No exceptions. Been there, done that, not going there again.

Last year, someone discovered the identity of one of the nominees before voting time, and because of a petty grudge against the nominee, he sent some derogatory information by e-mail to everyone whose name appeared on the rear of the QRP Quarterly imploring that he not be considered for the QRP Hall of Fame. Since that included most but not all of voters, I innocently and naively forwarded it to the few remaining voters who had not gotten the original mail, and indicated to all the voters that I thought it was baseless and utter nonsense.

Unfortunately, as things worked out, the nominee was subjected to a great deal of unpleasantness in his life because of this (which is much more complicated and involved than it might appear) and which is deeply regrettable. And Chuck Adams banned the person from qrp-l. As for the nominee, no one else gave any credence to the negative information either and he was inducted by a wide margin. But the damage was done.

If anyone in the future has any negative statements to make about any nominees for the QRP Hall of Fame, please be advised that they will be summarily dismissed and will NOT be forwarded to any of the voters. If anyone has any vendettas against a nominee, this is not the forum for them.

If anyone has a problem with this, they can take it up with the President of the QRP ARCI, W4Q0.

73 and queue our pea DE WA8MCQ

-----  
Date: Thu, 13 Jan 2000 12:55:11 -0600  
From: Dick Carroll <dixie@townsqsr.com>  
To: mpupeza@softecsyst.net  
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [60247] Re: Fw: Is #28 too thin for 'invisible' antennas?  
Message-ID: <387E1F8F.660E8A28@townsqsr.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Mike Pupeza wrote:

>  
> Hi Gang;  
>  
> I hope this isn't a duplicate message! I'm having some problems!  
>  
> I have, in the past, used #28 gauge enamelled wire for 'Invisible' antennas  
> for HF. Usually I would run a hundred, or so, of insulated 22 gauge  
> hookup wire as a 'counterpoise' wherever I could, along the balcony, hanging  
> down, whatever. Then I would run whatever length of #28 wire, through  
> buttons, and monofilament fishing line out in the open, for another 80 to  
> 100 feet - whatever would fit, and not be seen too easily!  
> These condo's in Florida are often strict!  
> I would feed these with a length of 450 Ohm open wire line to my LDG tuner.  
> It worked!  
> How well, I never did know.  
>  
> Recently, I was advised by others (more knowledgeable????) that #28 is TOO  
> THIN  
> for an antenna, even though I rarely run more than QRP levels - 10-15W PEP  
> SSB!  
>  
> Any comments?

> Would I get SUBSTANTIAL improvements in going to heavier gauge wire?  
> I am trying to get some WHITE Teflon covered wire for the antenna, natural  
> enamelled is TOO VISIBLE!  
>

Years ago QST published a finding where the ARRL had experimented with numerous sizes of wire in use as halfwave dipole antenna elements, up through a very small size, 30 ga. as I recall. They found no real difference in the way the antenna radiates based on wire size alone. If anything has changed since then, I'm not aware of it. Of course, larger wire will have less  $I^2R$  loss, but that seems a minimal part of overall antenna efficiency.

Dick W0EX

-----  
Date: Thu, 13 Jan 2000 10:44:16 -0800 (PST)  
From: Jim Hale <kj5tf@yahoo.com>  
To: QRP-L <qrp-l@Lehigh.EDU>  
Subject: [60248] New QRP miles per watt record for 160M !  
Message-ID: <20000113184416.24143.qmail@web703.mail.yahoo.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

This morning, 1/13/00 around 11:45Z Dan N4ROA reduced his power all the way to 12mW with Diz WB8QYY on the other end!

Dan is near Gate City, VA and Diz is near Cincinnati, Ohio.

I calculated the distance of 202 miles, divided by .012w, and we get 16,833 miles per watt.

The old record has been held by G3VWK with 20mW, and GW4AEC running 10mW in 1971. They were 133 miles apart, for 13,300mpw.

I had been trying with Diz when Dan came on this morning. And got to hear Diz replying with Dan's power, but couldnt hear Dan's mW.

Congratulations to you both! Another MPW record falls!

I will be trying to beat there new record tonight, 03"30Z, and tomorrow AM around 11:30Z, untill sunrise.



Look for me around 1.810MHz

72/71's de Jim KJ5TF

=====

Ham radio/alt energy - <http://www.madisoncounty.net/~kj5tf/>  
Milliwatting Editor ARCI QRP Quarterly  
AR QRP#2 - Kingston, Arkansas 35.94N 93.47W  
Private email [kj5tf@madisoncounty.net](mailto:kj5tf@madisoncounty.net)

-----  
Do You Yahoo!?

Talk to your friends online with Yahoo! Messenger.  
<http://im.yahoo.com>

-----  
Date: Thu, 13 Jan 2000 13:07:10 -0600  
From: Dick Carroll <[dixie@townsqr.com](mailto:dixie@townsqr.com)>  
To: [fantbb@yahoo.com](mailto:fantbb@yahoo.com)  
Cc: Low Power Amateur Radio Discussion <[qrp-1@lehigh.edu](mailto:qrp-1@lehigh.edu)>  
Subject: [60249] Re: Is #28 too thin for 'invisible' antennas?  
Message-ID: <[387E225E.1B2A8B5@townsqr.com](mailto:387E225E.1B2A8B5@townsqr.com)>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Up through 100watts ICAS, no problem should be encountered using the thin wire. Tensile strength is often a problem, so the ideal wire would be stainless steel, copper plated. Since that maybe impossible to find, some hams have used stainless steel fishing leader line with good success (I have not). It's very thin and STRONG. Has slightly more I<sup>2</sup>R loss, and some small amount of effect due to the added permeability of the small iron content of the SS might be involved, but my experience using SS tower guy cables, fed as a broadband dipole indicates it is not noticable or of serious consequence.

Dick W0EX

Jeff wrote:

>

> --- Karl Kanalz <[KKkanalz@excel.com](mailto:KKkanalz@excel.com)> wrote:

> > Naw! #28 wire isn't too small for an antenna, Mike! It'll work

> > just fine,

> > but the results

> > you obtain, of course, will be dependent on height above ground,

> > proximity  
> > to absorbing  
> > materials, resonance at the operating frequency, etc.  
>  
> I used #28 wire for a stealth antenna and it worked fine. However the  
> main drawback was that it kept breaking. Just the action of the wind  
> would eventually cause it to break at the at the stress points. I  
> ended up using #14 vinyl covered wire just because I got tired of  
> fixing it about once a month. As far as signals concerned I noticed  
> no diffence. You could run 100 watts to #28 wire and worst case it  
> might get slightly warm but you'll get out just fine. Though it would  
> be interesting to see what a kilowatt would do. 8-)  
>  
> 73!  
>  
> Jeff  
>  
> =====  
> Jeff Jones  
> AB6MB  
> Norcal QRP Net 7045 Sunday 6pm PST Monday 0200 UTC  
> NorCal QRP Club #65, QRP-L #1780, ARCI 10071  
> Radical FIST Member 6798  
> Voicemail/Fax 1-888-Excite2 ext 925-439-2514  
>  
> -----  
> Do You Yahoo!?  
> Talk to your friends online with Yahoo! Messenger.  
> <http://im.yahoo.com>

-----  
Date: Thu, 13 Jan 2000 15:09:44 -0500 (EST)  
From: James Skalski <jskalski@localnet.com>  
To: Mike Pupeza <mpupeza@softecsys.net>  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [60250] Re: Fw: Is #28 too thin for 'invisible' antennas?  
Message-ID: <Pine.LNX.4.20.0001131431540.836-1000000@valhalla.valhalla.buffalo.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

I think what you describe is a situation that requires improvisation.  
12 gauge copperweld wire would give you an antenna that will last  
a long time..... Not much will survive a Florida tropical storm.

Being inconspicuous is your prime concern. You will  
unfortunately be forced to use less durable materials. If the materials  
used are indeed virtually invisible; you will have to be sure that no  
people, animals or vehicles will "find" it. Thinner gauge single strand

copper enamel wire probably won't survive loads. By loads I mean cables, birds :-), wind and any significant weight. The weight could be just the weight of a particularly long length of wire. Movement of trees will shorten the life of you antenna if you attach to the higher branches.

If your installation can minimize any of these factor; you can use the thinner materials. Attic installation is sometimes an option.

You have used thinner materials. How long do you (or would you ideally) want the antenna to last? A few months out of the year would let you get away with lighter materials. A permanent installation would make you gravitate towards the heaviest materials meeting the "stealth" requirement.

I personally would try 24 gauge or larger. If you go smaller than that I recommend that you check to see if you still have an antenna before each use :-) some transmitters aren't very tolerant.

The colors would vary with the height above ground, surrounding buildings, surrounding vegetation. I have driven past some industrial areas where even black might work against the sky :-(  
As you lift the antenna further the color will be less and less important.

The age of your neighbors might be a factor. My mother in law is up in age and wouldn't notice much in the way of an antenna. Neighbors are more tolerant if your operation doesn't interfere with them. It is best to be sure that you don't get into their phone or TV.

BTW if you are the guy with the bird sitting on wire...Teflon might be a good choice. It is slippery and he will probably have a tough time staying on.....

73,

Jim n2go

-----  
Date: 13 Jan 00 20:19:57 America/Fort\_Wayne  
From: M Goins <mgoins@usa.net>  
To: qrp-l@Lehigh.EDU  
Subject: [60251] Wanted - OHR WM-2 or LDG digital wattmeter  
Message-ID: <20000113201958.6523.qmail@aw161.netaddress.usa.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: quoted-printable

looking for an OHR WM-2 wattmeter, built or unbuilt kit. please advise of=

f  
list if you have one. Also looking for anyone using the LDG digital wattmeter.  
Thanks.

mike  
wb5yjx  
"I looked for the perfect pencil for years until =

I realized it wss not the pencil, but me." - John Steinbeck

-----  
Get free email and a permanent address at <http://www.amexmail.com/?A=3D1>

-----  
Date: Thu, 13 Jan 2000 13:22:51 -0700  
From: Bruce Toback <btoback@optc.com>  
To: <w5yr@worldnet.att.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [60252] Re: RF power measurement discrepancies?  
Message-ID: <200001132142.0AA25124@landru.optc.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"

George Baker writes:

>... I would rely  
>upon the r-f voltage measurement rather than the diode detector  
>measurement. The peak voltage times 0.707, quantity squared, divided by  
>the load resistance across which the voltage is measured, should be a  
>fairly accurate measure of the r-f power under steady-state conditions  
>(constant waveform amplitude).

Isn't it the case that for regulatory (and award) purposes, the calculation should omit the 0.707 factor? That is, isn't it true that the PEP of a CW signal is just its peak power?

-- Bruce

-----  
Bruce Toback      Tel: (602) 996-8601 | My candle burns at both ends;  
OPT, Inc.                (800) 858-4507 | It will not last the night;  
11801 N. Tatum Blvd. Ste. 142      | But ah, my foes, and oh, my friends -  
Phoenix AZ 85028                    | It gives a lovely light.  
btoback@optc.com                    |        -- Edna St. Vincent Millay

-----  
Date: Thu, 13 Jan 2000 14:33:41 -0600  
From: Dave Sjolín <sjolin@swbell.net>  
To: km5im@telepath.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [60253] Re: Need help on  
Message-ID: <387E36A5.9958D223@swbell.net>  
MIME-version: 1.0  
Content-type: text/plain; charset=us-ascii  
Content-transfer-encoding: 7bit

Johnny wrote:

> I need some formula examples how to calculate these problems can some  
> one direct me to a web page or something on this.

You really should invest in an ARRL handbook. You can get a used one  
cheap from many sources. Ebay has them all the time. They are well worth  
the investment.

73 de Dave, N0IT

-----  
Date: Thu, 13 Jan 2000 14:53:06 -0600  
From: Sam\_Stimson@Dell.com  
To: sjolin@swbell.net, qrp-1@Lehigh.EDU  
Subject: [60254] RE: Need help on  
Message-ID: <5F97C32016F1D1119B1700A0C98422E702D7614F@ausxmbrh05.us.dell.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="windows-1252"

I have the handbook on CD and it is great. It stays in my notebook here at  
work and anytime I need a formula, etc. I can find it..... I can mail you  
last years if you want it.....

Sam  
N5WU

Johnny wrote:

> I need some formula examples how to calculate these problems can some  
> one direct me to a web page or something on this.

You really should invest in an ARRL handbook. You can get a used one cheap from many sources. Ebay has them all the time. They are well worth the investment.

73 de Dave, N0IT

-----  
Date: Thu, 13 Jan 2000 13:20:25 -0800  
From: Mike Gipe <mgipe@reliablemeters.com>  
To: btoback@optc.com, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [60255] RE: RF power measurement discrepancies?  
Message-ID: <F988E2FF74F4D111A61F00A0C949D7A928E852@mission>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="windows-1252"

That's a common misconception. PEP, or "peak envelope power" is NOT the instantaneous power at the peak of the RF sine wave. It is the RMS (same as average for a sine wave) power of the RF at the peak of the modulation envelope. For CW, the PEP is the same as the key-down power. Morse ("CW") signals vary between zero amplitude (key-up) and maximum amplitude (key down). We measure CW power during key-down, which is the peak of the modulation envelope. SSB is the same, except that its modulation envelope is more complex.

Mike K1MG

> Isn't it the case that for regulatory (and award) purposes, the  
> calculation should omit the 0.707 factor? That is, isn't it  
> true that the  
> PEP of a CW signal is just its peak power?  
>  
> -- Bruce

-----  
Date: Thu, 13 Jan 2000 16:27:01 -0500 (EST)  
From: Chris Cartwright Sr <ccart@phideaux.com>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [60256] Re: 160m mobile  
Message-ID: <Pine.LNX.4.04.10001131624550.28096-1000000@dns.phideaux.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 13 Jan 2000, tom whalen wrote:

> On the way to work yesterday, I had a very nice qso with Tom N5TW while I  
> was mobile heading to work. He gave me a 539 and he was 579. Not sure

Which begs the questions... What do \*you\* use for a mobile antenna on  
160? I'm on 80M thru 70cm mobile, but 160 still eludes me, even with a  
Suburban as the counterpoise :)

-- Chris Cartwright, Technical Engineer | ccart@phideaux.com --  
-- N3XRV ARRL-VE Norcal Zombie #163 | Gaithersburg, MD FM19je --  
-- MDmW #5 NJ-QRP #105 QRP-L #655 NORCAL #1891 FISTS #5028 QRP-ARCI #9271 --

-----  
Date: Thu, 13 Jan 2000 16:42:03 -0500  
From: "Dieter Gentzow - WB8QYY" <wb8qyy@one.net>  
To: <qrp-l@Lehigh.EDU>  
Subject: [60257] OPERATING: 160 again tonight  
Message-ID: <008301bf5e0fb7985f40\$0102030a@amd300>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="Windows-1252"  
Content-Transfer-Encoding: 7bit

Hey all you flea power folks...

A few of us are also going to try 1.8432, the BAUD RATE FREQ.  
John, KB2HSH in Buffalo, New York and I will set up a sched for tonight  
Will post it later.

I remember when I thought 40 meters was fun!

73 - Dieter (DIZ) Gentzow - WB8QYY "oo's"  
Loveland, Ohio - NE suburb of Cincinnati  
FPqrp#-1 DL-QRP-AG#1454 QRP-L#1998 10-X#9389 CATT#26 K2#493  
<http://w3.one.net/~gentzow/wb8qyy.htm>

-----  
Date: Thu, 13 Jan 2000 16:52:45 -0500  
From: Brian <brian@iquest.net>  
To: jskalski@localnet.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [60258] Re: Fw: Is #28 too thin for 'invisible' antennas?

Message-ID: <387E492D.1C287F7E@iquest.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I have an attic dipole. I used Rad Shack shortwave antenna kit, it's like 12 gauge stranded uninsulated wire. Put it in the peak of my roof and it's center fed with RG8X down to my Norcal 40a and Ten Tec Scout.

I've got WAS on 40m with it, also Cuba, Mexico, Belize, and Panama. 42 states were on the Norcal at 1.3 watts of power. The rest on the Ten Tec between 3.8 and 5 watts.

AF4PS has a phenominal (huh?) make that incredible attic setup. Same kind of antenna but he's in Tampa area and he's working DX like it's no big deal.

"Oh yeah Brian, I got a couple of JA cards in the mail today, yup, had to crank the NC20 all the way up to 2 watts for those. Uh huh."

Attic dipoles are worth a try.

72

James Skalski wrote:

>  
> I think what you describe is a situation that requires improvisation.  
> 12 gauge copperweld wire would give you an antenna that will last  
> a long time..... Not much will survive a Florida tropical storm.  
>  
> Being inconspicuous is your prime concern. You will  
> unfortunately be forced to use less durable materials. If the materials  
> used are indeed virtually invisible; you will have to be sure that no  
> people, animals or vehicles will "find" it. Thinner gauge single strand  
> copper enamel wire probably won't survive loads. By loads I mean  
> cables, birds :-), wind and any significant weight. The weight could be  
> just the weight of a particularly long length of wire. Movement of trees  
> will shorten the life of you antenna if you attach to the higher branches.  
> If your installation can minimize any of these factor; you can use the  
> thinner materials. Attic installation is sometimes an option.  
>  
> You have used thinner materials. How long do you (or would you ideally)  
> want the antenna to last? A few months out of the year would let you get  
> away with lighter materials. A permanent installation would make you  
> gravitate towards the heaviest materials meeting the  
> "stealth" requirement.  
> I personally would try 24 gauge or larger. If you go smaller than that I  
> recommend that you check to see if you still have an antenna before each



> use :-) some transmitters aren't very tolerant.  
>  
> The colors would vary with the height above ground, surrounding  
> buildings, surrounding vegetation. I have driven past some industrial  
> areas where even black might work against the sky :-(  
> As you lift the antenna further the color will be less and less important.  
>  
> The age of your neighbors might be a factor. My mother in law is up in age  
> and wouldn't notice much in the way of an antenna.  
> Neighbors are more tolerant if your operation doesn't interfere with  
> them. It is best to be sure that you don't get into their phone or TV.  
>  
> BTW if you are the guy with the bird sitting on wire...Teflon might be a  
> good choice. It is slippery and he will probably have a tough time staying  
> on.....  
>  
>  
> 73,  
>  
>  
> Jim n2go

--

```
=====
KB9BVN :NORCAL #2792 FISTS #5695/CC# 764 QRP-L #1540
      39.558 N   86.095 W   Johnson Co., Indiana
      GRID: EM69WN - TenTec Scout - Attic Dipole - 5w
      Proud member of the American Radio Relay League
      Foxhunting Team UNDERDOG - Underdog #4
=====
```

-----  
Date: Thu, 13 Jan 2000 16:58:47 EST  
From: HammanAl@aol.com  
To: qrp-l@lehigh.edu  
Subject: [60259] Grayline  
Message-ID: <ee.486594.25afa497@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

I lurk more than post, but, I downloaded a program a couple of years ago from the AOL ham radio library files called MAPPER 86, by Dennis Murray and dated 3-26-91, Dennis says it might not run on all machines, but, I used it on W98, and DOS and had no problems. It is public domain software that allows you to put in your latitude/longitude and solar flux as well as antenna info for your location. You then only need to put in the prefix of the country you are interested in and that program gives you the short path, long path, distances for both and freqs that might be best. It shows the grayline and updates

according to your selection, for instance every ten minutes or so, I think it might also be located on AC6V's webpage also, but, I am not sure. Give it a try, it works for me, and the price is sure right. The map is blue and red, with the grayline in black and when you put in your prefix for the country you wish it draws a line to that country from your location. Hope this helps some of you out, back to lurking!!!!

Al Bowers  
KA6FBB  
Apple Valley, CA

-----  
Date: Thu, 13 Jan 2000 14:22:16 -0800 (PST)  
From: Jim Durkin <jimdurkin@yahoo.com>  
To: qrp-l@Lehigh.EDU  
Subject: [60260] Contacting Chuck Adams  
Message-ID: <20000113222216.9609.qmail@web307.mail.yahoo.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

I paid Chuck Adams for some CW tapes a couple of months back and haven't received them. Don't seem able to reach him. Anyone know how to make contact?  
73  
Jim

-----  
Do You Yahoo!?  
Talk to your friends online with Yahoo! Messenger.  
<http://im.yahoo.com>

-----  
Date: Thu, 13 Jan 2000 15:44:58 -0700  
From: "Francis Callahan" <colcal@srv.net>  
To: <QRP-L@Lehigh.edu>  
Subject: [60261] QRP Quarterly  
Message-ID: <001901bf5e17\$d2cbe5e0\$8cdf070c@callahan>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Just recieved the QRPQ and another great issue. Thanks to all involved.  
Can't find this kind of information in very many places now days 72 Cal  
KF7ET/Idaho

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End of QRP-L Digest 1699

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